

ELECTRONIC
SURPLUS61
ANNIVERSARY
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1947 2008

CATALOG WS-08

MANY NEW ITEMS

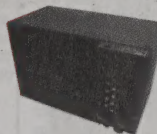
CHECK EVERY PAGE!

ORDERING
INFORMATION
SEE PAGES 19 & 20MINIMUM
ORDER \$10.00
+ SHIPPING

SG-376 Signal Generator

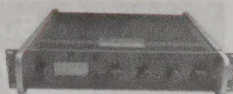
SG-376 Low Frequency
Signal Generator covers
20Hz to 20KHz. Has two
variable frequency audio
signal generators and twodual-frequency intermediate radio frequency (IF) signal
generators. The AF and IF signal outputs are indepen-
dent of each other. Generates two separate AF signals
which can be used independently, one at a time, or
both can be added for simultaneous use. It also gener-
ates four different, unmodulated IF signals which are
available independently, one at a time, or in specific
pairs simultaneously. 19x12.5x5.3, 18 lbs sh. #SG-376,
Used Checked, \$225.00

SCR-508 Radios

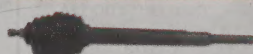
BC-603 / SCR-508 superheterodyne FM
receiver covers 20 to 27.9MHz. The receiver
can deliver an output of approximately 2
watts to its self contained speaker or
about 200 milliwatts to its headset circuits.
The front panel contains 10 push buttons
by means of which any one of 10 pread-
justed receiving channels may be select-
ed. IF (nominal) 2.65MHz. Bandwidth
80KHz. Comes with 12VDC dynamotor. 6.8x12.5x11.5,
40 lbs sh. #BC-603, Used not tested, \$150.00BC-604 FM Transmitter covers 20-
28MHz, and delivers a carrier
power to the antenna of approxi-
mately 30 watts. 10 crystal chan-
nels. 8 tubes. Comes with 12VDC
dynamotor. 10.3x18x11.5, 73 lbs
sh. Used not tested. Not sold separate.FT-237 Mount will hold one BC-604 and up to two BC-
603 receivers. 54 lbs sh. Used. Not sold separately.

One each of BC-603, BC-604, and FT-237, #508-SYS, \$850

HV Power Supply

1-2000 VDC @ 20ma
Adjustable Rack Mount
Power Supply by Power
Designs, Inc. Meter is
for voltage and current
with a toggle switch
determining function. Requires 115VAC 60 Hz.
19x19x5, 29 lbs sh. #2K20, \$250.00

MP-65 Mast Base

MP-65 MAST BASE
for MS-116-117-118 or
AB-21-22-23-24 mast
sections; Requires 2"dia hole for mounting. 3 lbs sh. #MP-65, Used good
condition, \$65.00

Infrared Thermometer

NTE Digital Infrared
Thermometer, Pen-style IR
thermometer fits easily in a
pocket for quick and easy
surface temperature measurements. Temperature
Range: -27° to 428°F (-33° to 220°C). Accuracy: ±2%
of reading or ±2°C. 0.1° resolution for accurate read-
ings. Selectable temperature units F/C. 1:1 Optics (dis-
tance-to-spot size ratio). LCD display. Does not use a
laser beam. Metal alloy case. Lithium batteries (2 LR44
included typically provide for 180 hours of continuous
operation). Low battery indication. Automatic power
OFF after 15 seconds. 1 Year Warranty. Durable pock-
et clip. #DIT-205, New, \$49.50

7 foot Balloon

7 foot Weather Balloon, a
relatively small 800 gm bal-
loon capable of reaching
100,000 ft. in height at a
minimum rate of rise of
1000 ft./min. both at night
and during the day. TheML-537 represents a lo-20,000, ft. height improvement
over the separate day and night balloons it replaced. It
also has a specified 80% reliability, as compared to the
previously required 60%. Balloon ML-537/UM, Sounding
type, Clear color, Rate of rise is 1000 feet, Bursting alti-
tude 100,000 feet, Volume 126 cubic feet, Free lift 1600
grams. 5 lbs sh. #ML-537, Unused, \$25.00

LED Flashlight

ECG LED Super-Bright
Flashlights, Conveniently-Sized,
14 super bright LEDs. Aluminum
alloy case. Waterproof. 90 day
warranty. LED life 100,000 hours.
Includes 3 AAA batteries. New.
Available in 3 metallic colors:
Pewter: #FS-03PW, \$7.39
Blue: #FS-03BL, \$7.39;

Red: #FS-03RD, \$7.39

SEM-52 Radio

SEM-52 Radio, German-made unit
can operate on six preset channels
(2 supplied) in 47-56.975MHz FM
range @ 300 mw: 25KHz spacing.
Has Off-On Squelch (AUS-EIN-RSP),
Volume & Channel (KANAL) select.
Requires six AA batteries (not
included). Includes RT, 35" ribbon
antenna with flex base and carrying
bag. Also, comes with an adapter cable allowing use with
H-250 handset (handset sold separately). May not com-
ply with FCC regulations. 7.1"Hx3.4"Wx1.5"D. 4 lbs sh.
#SEM-52, Used checked, \$125
#H-250-U Handset Used with broken clip, \$39.50

Housing Cabinet

Aluminum Housing from C-10327
Control. Great for outdoor solar
or antenna control projects. Has
two compartments. Inner dimen-
sion of each compartment is
10"W x 6.1"H x 6.2"D and 2.7"W x 5.3"H x 5.5"D. Overall
17.5"W x 8.2"H x 9.1"D. Comes with original front plate
for each compartment. 18 lbs sh. #ENC-10327, \$21.00
As above but less front plates. #ENC-10327-LP, \$20.00

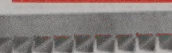
Mueller Gator Clip

Mueller #27 High Quality Alligator
Clamps. Rated for 20 amps.
#MUE-27, Unused, 2 for \$2.50;
10 for \$10.00; 100 for \$60.00

Dummy Camera

Dummy Rotating Camera With LED.
Excellent imitation of a real security camera.
Has a motion sensor. Motorized pan move-
ment. LED lights when the device is turned
on. No wiring needed. Requires three 1.5V
AA batteries (not incl.). Height: ca. 6.7". #CAMD3, \$10.00

Finger Stock

24" long x 5/16" height of Finger
Stock. Beryllium Copper Radio
Frequency Grounding Contact
Strip, Each individual finger has a width of 1/8" and a
height of 1/8". #97-555-02, Unused, \$6.95

Fair Radio Sales

2395 St. Johns RD • Lima, Ohio 45804

419-223-2196/227-6573

24 Hr. FAX 419-227-1313

WEBPAGE: www.fairradio.com

EMAIL: fairradio@fairradio.com

This is the only
catalog that will
be sent this year.

SRA-33 Coupler Set



Coupler Set, in heavy aluminum frame. Includes four cavity-coupler units, power supply, cables, RF selector switch, four power meters & manual. 48x22x27, 350 lbs. #SRA-33, Used, \$225.00

SRA-33 Control-Power Supply with cable for above, 45 lbs. #C-4586, Used, with set purchase. \$75

DUAL SILVER-PLATED UHF ANTENNA COUPLER CAVITY, part of system which allowed four receiver/transmitters (140 W) to use single antenna. Each cavity 14.5" L x 6" dia has quarter-wave variable stub (0.2" per turn X 28 turns) over 225-400 Mhz. Input & output loop-coupled; cavities aperture-coupled. Also 8 tracking slugs. Un-loaded Q = 4000, loaded Q 700. Insertion loss 2 DB. (We attached a disk to the moving stub which reduced frequency to below 140 Mhz.) Unit has electro-mechanical drive for 19 preset and one manually selected frequency. With weather-tight aluminum cover. Requires 28 VDC, 6.3 VAC, 115 VAC 60 Hz for motor and chopper. 15x9.5x24, 45 lbs sh. #CU-SRA-33, Used w/info, \$49.50

SRA-33 Coupler Manual repro, #MM-SRA-33, \$15.00

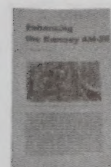
Books



Shortwave Receiver Chapters and more from Frank Jones' famous book "The 1936 Radio Handbook". Filled with diagrams, schematics, and photos of receivers, tube specs, test equipment, and more. Perfect for the radio builder, collector, restorer, or amateur radio operator. 46 pages. #23608, \$5.95

Building the Tesla Turbine.

Included in this book are step by step instructions in the form of detailed photos and drawings showing how to construct your very own Tesla turbine. Not an exact replica of the original, but one that has been simplified, thus making it much easier to build than the original. The result is an impressive model measuring 3-1/2" wide x 6" long x 4" high. Although it comes in a small package this turbine generates impressive power. The model as detailed rotates at speeds in excess of 5000 rpm at 80 psi of air pressure. And it has the capability of running either clockwise or counterclockwise at these speeds. 48 pages. #1573, \$9.95



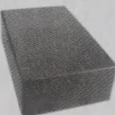
Enhancing the Ramsey AM-25, Build an AM transmitter by enhancing an affordable commercial flea-power kit into a carrier-current workhorse. While audio technology is everywhere, broadcast hardware is hard to find. The AM-25 is a Ramsey kit selling for under \$100. Billed as a "professional synthesized AM transmitter," it's really just an intelligent milliwatt oscillator. Built by the book, it is no workhorse. Here are some suggestions for converting the AM-25 into a reliable rig for continuous running at practical levels of power. Recommended is carrier-current broadcasting over the power lines, a little-known mode, legal under Part 15. In this booklet, you learn how to enhance the AM-25 by tweaking all of its power functions and by adding a touch of Tesla technology in the rig's final stage.

#BK-AM-25, List Price, \$9.75; Our Price, \$8.95

Enclosures



Aluminum Bud Box Enclosure. 4" L x 2.75" W x 2" H, Unused, #CU-3015, \$4.95



Plastic Bud Box Enclosure. 3 5/8" L x 2 1/4" W x 1 1/2" H, Unused, #PT-11308, \$3.95

Aluminum Bud Box Enclosure. 5 1/4" L x 3" W x 2 1/8" H, Unused, #CU-2106, \$6.00



Plastic Enclosure with aluminum base plate from Mouser. 5 1/8" L x 3 1/8" W x 1 5/8" H, Unused, #ENC-518, \$4.50



IERC Tube Shields



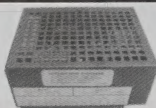
Tube Shield for 9 pin mini tubes (medium height) 12AX7, 6U8 etc... Made by IERC. #T6-1020-1, Unused, \$8.95



Tube Shield for 9 pin mini tubes (tall height) 12BY7, 12BH7 etc... Made by IERC. #TT6-6625-09-3B, Unused, \$7.00

Power Supplies

Kepco DC Power Supply, 0-15VDC, 0-1.5 Amps. Perforated housing. 6.3x4.9x3.3, #PAT-15-1, 7 lbs sh. \$19.95



Switching DC Power Supply by Power One, Outputs: 5VDC 12A, 12VDC 4A, -12VDC 0.6A, -5VDC 0.6A. Requires 115/230VAC 50/60 Hz. 9x4.8x2.2, 5 lbs sh. #SPL100-4000, Unused, \$10.00

Tuning Tools

High-Frequency Ceramic Ring Tuning Tools - Cross Tip, Special ceramic blades and antistatic handles. No electro-magnetic induction. No eddy current loss in HF (High Frequency). 100% electric insulation. Length 3 47/64". New, #VTCS1, \$4.20



Radio Alignment Tools, Set of 10 plastic adjusters. Length: 4 17/32". Tips: Flat: 1/32", 1/16", 5/64", 13/64". Cross: 3/32", 1/8". Hex: 5/64", 3/32". Square: 1/16" x 1/16", 5/64" x 5/64". New, #VTCSS, \$4.20



GOD IS
JUST A
PRAYER
AWAY

Fair Radio buys your excess material. We may be interested in some items in low quantities, but prefer higher quantities for our catalog sales.

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R-390A Parts & Assy

Maintenance Manual Reproduction for R-390A, \$23.00
Operators Manual Reproduction for R-390A, \$12.00



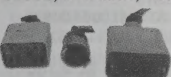
VFO from R-390A HF receiver with 5749 tube; various mfg (no choice). 4x3x7.5, 4 lbs, used dentless connectors & coupler "as-is", #VFO/R390A, \$26.50



455KHz Beat Frequency Oscillator for famous HF Receiver R-390A. UNUSED CONDITION! 3.3x1.5, 2 lbs sh. #390A-BFO, \$32.50

Replacement assemblies & parts for the R-390A:

AC Terminal Protective Cover, #390A-ACP, \$8.00
CRYSTAL OSCILLATOR (no crystals) #390A-CO, \$25
CRYSTAL, BAND, #390A-(crystal freq.)-CR, \$12
DIAL, COUNTER, #390A-DC, \$25.00
GEARS, #39, #390A-G-39; or #21, #390A-G-21, \$12
GEARS others less clamp, #390A-G-(specify #), \$3.50
GEAR CLAMPS, 1/4" only, #390A-GC, \$3.50
HANDLES per pair, #390A-HAND, \$18.00
KNOBS, small size, #390A-SM, \$6.00
KNOBS, medium size, #390A-MED, \$6.00
POWER SUPPLY without tubes, #390A-PS, \$35.00
TRANSFORMER, RF, #390A-RF- (specify #) \$11.00
TRANSFORMER, IF, #390A-IF- (specify #) \$14.00
SLUGS, IF Variable, #390A-SL-IF, \$6.00



Test Connectors to make test extender cables for R-390A receiver. You

receive the 5 male/female connector pairs with covers to make the following extender cables along with instructions from manual: P110-J410(Crystal Osc), P111-J811/P119-J619 (Power supply/Audio), P120-J620(Audio), P112-J512(IF Amplifier), P108-J208/P109-J709(RF Amplifier/VFO). #390A-CON, \$69.95

R-390A Fuses, New,

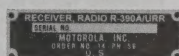
0.1 amp (good replacement for 1/8 amp), #6FF0.1N, 5 for 2.50, 10 for \$3.95
0.25 amp, #6FF0.25N, 5 for 2.50, 10 for \$3.95
3.15 amp (good replacement for 3 amps), #6FF3.15N, 10 for \$1.95

--- COVERS FOR R-390A ---

Hard to find aluminum replacement top and bottom covers for R-390A series. Very close to original. Newly manufactured, #390-TB, \$89.95
RF Cover, Newly manufactured, #390-RF, \$25.00
Set: top, bottom, & RF; newly mfg, #390-S, \$109.95

--- NAME TAGS FOR R-390A ---

Reproduction Name Tags for R-390A radios. Multiple mfg available. New, \$24.99 each



Motorola Large Print, 3"Wx7/8"H, #TML390
Motorola Small Print, 3"Wx7/8"H, #TMS390
Collins, 2.5"Wx1"H, #TC390
Electronic Assistance Corp., 2.5"Wx1"H, #TE390
Stewart-Warner, 2.5"Wx1"H, #TS390

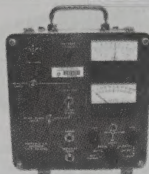
R-390A Connectors:

UG-573 Type "C" Male Unbalanced Silver Plated Connector/R-390A. #UG-573, Unused cut-off, \$6.50
Twin-Ax male, Amphenol, New, #82-5589-RFX, \$9.95; 3 / \$25.00
Mini-BNC p/o R-390A, #390A-MBNC-CH, used, \$3.00
As above but chassis, #390A-MBNC-CH, used, \$3.00



Hard to find R-390A balanced input adapter. Goes from Twin-ax male to a UHF female. Unused, #UG-970, \$40

ILS Receiver



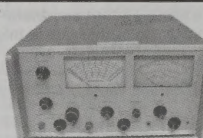
FA-8766 PORTABLE ILS TEST RECEIVER, covers 108.1 to 111.9 (5uv sens) and 329.3 to 335.0 (25 uv) Mhz with separate crystal controlled front ends feeding a common 60 mhz IF through a combiner and then converted to a 3 Mhz second IF. The RF and IF sections are in cast metal

shielded assemblies. The solid state receiver has audio and AGC detectors. The audio circuits have 90 and 150 hz bandpass filters, the audio is rectified and the output used to drive the DC meters. This unit is a good basis for modification and experimentation. Power input 120 vac or 18 vdc. Receiver has nicad battery/charger circuit. No warranty as to serviceability of battery. See our web page for more pictures. 10.1x9.5x12, 23 lbs sh. Crystals not included. With schematic/info. #FA-8766, Used \$39.50; 4 for \$100.00

RFI Receivers

Singer model #NM-17/27

is a programmable, precision electromagnetic interference/field intensity meter for the measurement of conducted or radiated RF interference, within the frequency range of 10KHz to 32 MHz. May be used as a VLF unit. The instrument may be used to analyze narrowband or broadband signals within its frequency range. Field intensity or direct peak detector functions may be used for measurements in addition to quasi-peak, slideback peak and BFO detection modes. AM, FM and PM signals may be detected and are available at the video output receptacle for oscilloscope display. Requires 115/230V at 50 to 400Hz. 18.5x16.7x8.7, 55 lbs sh. #NM-17/27, Used reparable with manual repro, \$595

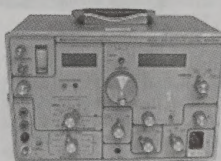


#NM-37/57 same as above except 30MHz-1GHz, \$795

#NM-26T Stoddart type, EMI Rcvr, 150KHz-32MHz, \$595

FAIRCHILD ELECTRO-METRICS R-70B RFI RECEIVER uses 9 tuning heads covering 0.1 to 1100 MHz; with two cases and manual, #R-70B, \$800.00

Selective Level Meter



Rycom 6041 Selective Level Meter / VLF Receiver makes measurements of both level and frequency on frequency division multiplex (FDM) equipment baseband signals. Although its primary application was intended to be on high-density long-haul microwave systems, the 6041 SLM may be employed on any communications equipment requiring selective/wide band level or frequency measurements. Frequency range for Wide Band Level Meter and Frequency Counter: 50 and 75 ohm - 300Hz to 3.5MHz; 124, 135, 150 ohm - 4KHz to 2.0MHz; 600 ohm - 300Hz to 100KHz. Requires 115VAC 60Hz or Battery. Battery holds a charge for the short term but is As-Is. 10.1x12.2x8, 24 lbs sh. #RYCOM-6041, Used Operational, \$595.00

COLLINS 208U-3A

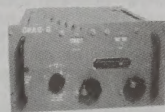


208U-3A POWER AMP automatically tunable over 2 to 30 Mhz SSB-AM-CW @ 3 KW PEK for use with URG-2 radios. Uses 4CX5000 PA tube; tune time 6 sec nominal, 10 sec max. With modules 333H-2 Electronic Control Amp, 309F-1 Digital to Analog Converter, 915V-2 Amp Control, 652J-13 Power Supply, 599Z-1 Test Panel and 915X-1 Control Monitor. Includes manual copies for all components except 915X-1 & 599Z-1. 72.5x32.6x31; 1200 lbs sh.

#208U-3A, Used not tested less 4CX5000, \$3200.
#208U-3, Used not tested less 4CX3000, \$3250.00

225 to 400 MHZ Amp

AM-915/GRC AMPLIFIER-MULTIPLIER plug-in for T-302/TRC transmitter; covers 225-400 MHz FM @ 100+ watts using 4X150A & 4X150G tubes. Controls Grid & Plate Tune and Amp Output Coupling. Requires +750 V, 200-350 V screen, and 6.3 V filaments; with schematic. 12x6x14, 24 lbs. #AM-915, used, \$95.00



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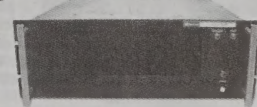
AM-914/TRC AMPLIFIER-CONVERTER, plug-in for R-417 receiver in 225-400 MHz range. Continuous tuning of RF and oscillator; 30 MHz IF. Modify and use as down-converter! With tubes 5670, 4/6J4.

Requires 150 VDC & 6.3 V. 7.5x6.5x9.5; 15 lbs sh. #AM-914, USED, \$40.00

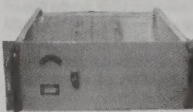
#AM-1179/GRC, 50 to 100 MHz, used, \$45.00
#AM-1177/TRC, 400 to 600 MHz, used, \$49.50
#AM-3203A/TRC, 1.35 to 1.9875 GHz, used, \$55.00

Rockwell Preselector

HF-8064 4-CHANNEL HF PRESELECTOR, auto-tuned bandpass filter for HF-8054 receiver & HF-8014. Provides front-end selectivity & overload protection for Rx; improves cross-modulation & out-of-band intermod. Power: 100/115/215/230 V 47-63 Hz. 5.3x19x24, 32 lbs shipping. #622-3522-203, used, \$695.00



UHF Preselector

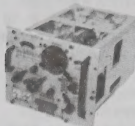


F-1506/G UHF Tunable Band Pass Filter / Preselector covering 225-400 MHz dial tuned. Consists of Lark Engr. FX4000-089 filter with N conn in

rackmount package. 5x19x18, 25 lbs sh. #F-1506, Used, \$85.00

VISIT OUR WEBSITE AT FAIRRADIO.COM

602-999 MHz Amp



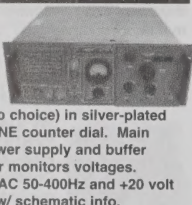
AM-1957 AMPLIFIER-OSCILLATOR, 601.5 to 999.5 MHz plug-in for T-893/GRC-50 transmitter. Utilizes three 7289 tubes as 651-1049.5 MHz oscillator, -50 MHz mixer and 15 watt power amp. Directional coupler detects Reflected Power and provides

monitor output for external meter circuit. RF passes through duplexer having identical receive/transmit sections each with two cavities. (Receive signal routed to separate AM-1955 receiver module.) Transmit RF then moves to second directional coupler which detects Reflected Power also with output for external meter. Wavemeter samples output RF for frequency measurement using calibration chart. Cathode current of each 7289 regulated by external 250 VDC, 650 VDC, 800 VDC, 5.7 VAC, 5.5 VAC. Schematic and info included. 8.9x11x16, 36 lbs shipping. #AM-1957, Used, \$69.50

AM-1955A/GRC AMPLIFIER CONVERTER used with R-1148A/GRC-50 receiver for 600-1000 MHz band; 60 MHz IF. Uses 4037A/2C40A tube as oscillator; also 5654, 2/5642. W/ wavemeter & calibrate book. Requires 150 VDC, 6.3 V. 15x9.5x8, 30 lbs sh. #AM-1955A, \$30.00

AM-6154 Amplifier

AM-6154/GRT-21 Power Amplifier conservatively rated for 50 watt output from 10 watt exciter input over 116-150 MHz; uses Elmac X6512/8930 or



Amperex DX393 tetrode (no choice) in silver-plated cavity-drawer; 175-turn TUNE counter dial. Main chassis has solid-state power supply and buffer amp/multiplier; panel meter monitors voltages. Requires 150/120/210/240VAC 50-400Hz and +20 volt reg 60ma, +20 volt keyed; w/ schematic info. 7x19x18.5, 80 lbs sh. Used Repable, #AM-6154,\$300

Bias Supply from AM-6154 or AM-6155 amplifier. 7.1x5x4, 7 lbs sh. #BS-6155, Used, \$35.00

AC - AC Inverter from AM-6154 or AM-6155, 7.1x5x4, 7 lbs sh. #INV-6155, \$39.50

GRT-21/22 Transmitter



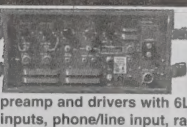
T-1109 Transmitter from AN/GRT-22 Radio Set. Frequency coverage is 225-400 MHz AM

in 3500 channels. The crystal controlled transmitter has 10 watts output. Associated amplifier is the 50 watt output AM-6155 listed on page 4 of our catalog. Requires 120/240 VAC. 18x19x5.3, 50 lbs sh., #T-1109, Used, \$59.95

T-1108/GRT-21 Transmitter same as above except 116-150 MHz in 680 channels. Associated amp is AM-6154. #T-1108, Used, \$60.00

Schematic Pack 1/ T-1108/T-1109, #SCH-T-1108,\$18.

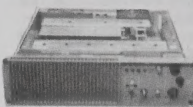
TIQ-2 Amplifier



AM-20/ TIQ-2 Audio PA Amplifier, Part of the TIQ-2 public address system that has been used since the 1950's uses 6SL7 as

preamp and drivers with 6L6 output tubes. Two mic inputs, phone/line input, radio/carbon mic input. Wood case with cover. Output 20 Watts 5 % distortion, 50 - 10000 hz. Power input 115/230 V 60 hz. #AM-20, 19x14x9, 75 lbs sh. Used Repable, \$250.00

RF Amp / Preselector



TN-612/G Prepost Selector, consists of RF preselector and broadband power amp. Pre-selector operates in four bands 1.8-3.6, 3.6-7, 7-14, and 10-24

Mhz. Microprocessor-controlled unit has no front panel controls except ON-OFF and indicators for OV DE, OV L, ATT, BITE, TUNE plus silver-plated coils and 3-gang variable capacitor. Frequency is selected by twelve Kilovac HC-1 vacuum relays and nine mini-coax relays along with motor interface adapters. Relays actuated by driver transistors. RF power amp uses four transistors S15-28, T9-0664 and two MRF-466 as output amplifiers. P/o GRC-215 HF-SSB; no further info. Requires 115/230 VAC 50-60 Hz; 4.5x19x17, 46 lbs sh. #TN-612, Unused, \$299.50

Broad Band Power Amplifier Assembly covering 1.6 - 24 MHz



removed from the TN-612 pre-post selector. Uses S15-28, T9-0664 and 2/MRF-466 transistors. 24 VDC. No further info at this time. 2.3x17.3x4.5, 9 lbs sh. #AMP-612, \$79.50

Coils and Variable Capacitor removed from the TN-612 Preselector.

Two silver plated coil boxes each with six coils. The preselector was supposed to cover 2 to 30 mhz in 4 bands. 3 coils for each band. Each coil silver plated wire on epoxy from with ferrite slug is in its own compartment with a glass piston variable capacitor. 13.1x2.2x3.3, 7 lbs sh. #612-COILS, \$50.00



Three section fully shielded variable capacitor 35 - 300 pf per section. Each section is shielded from the others. The insulation material looks like ceramic. Very high quality. 10x2.7x3, 6 lbs sh. #612-CAP, \$35

Both Coils and the Variable Capacitor as listed above. #612-KIT, \$75.00

T-195 Transmitter

T-195/GRC-19 TRANSMITTER 1.5-20 Mhz AM-CW-FSK in ten bands manual or auto tune. Power output 100 W (1.5-12), 90 W (12-16), 80 W (16-20 MHz). Uses two



4X150D tubes in power amp & 20 other tubes. Requires 22-30 VDC 42 amps input (9 amps "stand-by") for dynamotor supply. LESS METERS. With replacement knobs. Companion to R-392 receiver. 11.5x22x14.5, 135 lbs. #T-195, Used Repable,\$275
MANUAL for T-195, partial repro, #MM-T-195, \$30.00
Power Connector, #CONN-T-195, \$20.00
Spare Air Filter for T-195, #MK-312, \$12.00

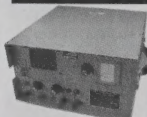
MD-203 FSK Modulator



MD-203/GR Radio Transmitter Modulator for the T-195/GRC-19 Transmitter. The MD-203 is a link in a complete radio teletypewriter comm. system. The teletypewriter signals developed in Teletypewriter TT-98 are supplied through Junction Box J-668 to the MD-203. The MD-203 is connected to the

exciter section of the T-195 to produce shifts in the CW signal. Uses tubes 7/26A6, 1/26A7. Less knobs. 9.1x13.8x7.3, 26 lbs sh. #MD-203, \$28.00

FAA Radios



TRX-103 UHF Solid State 3 channel, crystal controlled, AM Transceiver type FA-9606 covering the military aviation 225-400MHz band. Has built in speaker. 50KHz channel spacing. Transmitter output is 3 watt. Antenna impedance 50 ohms. Receiver IF is 21.4MHz. Requires 115VAC 60Hz or 24VDC. Crystals not included. Condition of internal battery AS-IS. 14.1x14.2x7.7, 43 lbs sh. Manual repro included. #TRX-103, Used Repable, \$149.50

TRX-102 VHF AM Transceiver type FA-8979 is similar to above except covers 118-136MHz and requires 120VAC 60Hz or 12VDC. Crystals not included. Condition of internal battery AS-IS. 13.8x13.8x7.9, 38 lbs sh. Manual repro included. #FA-8979, Used Repable, \$159.50

It is unlawful to operate on these frequencies unless you have a license to do so.

Aircraft Receiver

R-761/ARC-58 Receiver covers 2 to 29.999MHz, companion receiver and exciter to T-730. Req. 115 VAC 400 Hz input. 7.8x10.3 x23.5, 55 lb. #R-761, used, \$195.00



SCHEMATIC, #SCH-R-761, \$12.00
Control for freq-select; 6 lbs. #C-3141, USED, \$25



MODULES from AN/ARC-58 or TRC-75 radio sets. Each 4.8x4.5 x1.5, 2 lbs sh. USED not tested:
AMPLIFIER DETECTOR, 4x 5899 tubes; p/o R-761, #AM-1523, \$25

ELECTRONIC CONTROL AMPLIFIER

p/o T605/T-730 xmitter, #AM-1525, \$20.00

Similar to AM-1523, #AM-1526, \$25.00

AMPLIFIER-MIXER for R-761 with ten tubes and slug rack, #AM-1528, \$45; Schematic, #SCH-AM-1528, \$4

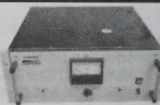
AMPLIFIER OSCILLATOR with Collins mechanical filter P455 Z1, #AM-1529, \$35.00

MIXER OSCILLATOR, for R-761; master oscillator 70H13A, Interpolation, spectrum generator Mech filters F455 Q2 & Q3. #CV-465A \$65.00
Schematic for CV-465B, #SCH-CV-465A, \$12.00

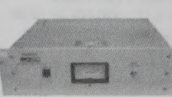
BALANCED MODULATOR with mechanical filters F300 Z4 and F300 Z5, etc. #MD-286A \$40.
REFERENCE GENERATOR, #SG-179A/URC, \$40.00

Microwave Transmitter

AML-STX-141 Single Channel Microwave Transmitter 12.7 to 13.25 Ghz operation, 5 Watt output. Manufactured by Hughes. A VHF input of 50



- 450 mhz single sideband suppressed carrier is upconverted to the output frequency. This unit consists of a solid state source, Frequency Sources MS-800XEL-06 or equal, various waveguide bandpass filters and other components. Removed from service. W/ info. With interconnect cable and power supply, 20.3x19x10.2, 47 lbs sh., #AML-STX-141, Used Repable, \$145.00



Hughes AML Klystron Power Supply, Power input 95 - 130 VAC, Output - 2200 VDC 130 ma and 6.3 vdc 1.3 amp current limited and adjustable. Meter

monitors output voltage or current. 16 x 19 x 5.25, 37 lbs sh. with info. Power supply only, #PS-141, \$50.00

CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313

Collins 618T



COLLINS 618T-2 SSB AIRBORNE TRANSCEIVER, 2-29.999 Mhz SSB-AM-CW in 28000 channels. Power output: 400 watts SSB-PEP 125 W AM-CW; 52 ohm output impd. Sensitivity SSB: 1

uv for 10 db S+N/N. Selectivity SSB: 2.85 KHz, 6 db down; 6.0 KHz 60 db. Audio input: 600 ohms. Uses two 4CX250's in P-A. Switch & meter monitor internal power. Separate control necessary for channel select. Racks & cables not available. Requires 115 V 400 Hz 3 phase 1 KVA & 1 phase 160 VA; also +27 VDC 4.5 amps. W/ manual repro; 7.6x10x22.2, 58 lbs. #618T-2, Used, repairable with K9 osc, \$550.00

Like above but requires 28 VDC 35 A and 115 V 400 Hz 1 phase 100 VA. #618T-3, Used, \$695.00

618T power/control connector, no cover, #CONN-618T, \$45.00

MODULES FROM COLLINS 618T HF TRANSCEIVER, as removed from equipment—not tested:

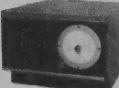
AM AUDIO AMP has mech filter F500 Y60 (526 9376); 2 lbs sh. #546-6053, \$45.00

IF TRANSLATOR has LSB-USB filters F500 Z4 (526 9377) & Z5 (526 9376). Mech. filter as used in PRC-47 to modify for LSB operation, #544-9286, \$99.00

KC-FREQUENCY STABILIZER, has mechanical filter F250 F100 (526 9410) and crystal filter X250KF440 (526 7006); 3 lbs. #618-KC-FRQ, \$40.

RF TRANSLATOR with K9 oscillator, 15 lbs. #618-RF-TR, \$200.00

618T RF Reference Osc. Module, includes 3 Mhz crystal oven which is divided to 500 KHz output, amplified and then divided again to produce 100 KHz output. 4.3x6x2.7, 2 lbs #528-0251-005, used, \$24.00



COLLINS 490T-1A (CU-1669A) AUTOMATIC ANTENNA COUPLER for 618T and similar 2-30 Mhz transceivers; rated RF input 630 W PEP, 200 W average. Matches 25 ft or longer whip or 25-100 ft long-wire antenna to 50 ohm line. Terminal for wire and "C" coax connection. Has 5-500 pf 10 KV vacuum variable capacitor and variable step-coil. Requires 115 V 400 Hz; 7.6x 10.1x12.6, 24 lbs. #490T-1A, Used not tested, \$499.

Collins 618T URM-157 Test Set, Consists of TS-1949/URM-157 and cable which connects the TS-1949 to the 618T. The radio set control is part of the TS-1949. Has meter to indicate forward / reflected power 200/2000 watts. Also provides connections for microphone, headset, audio in, and key. Power input connector also provided. Connections for 516H-1, antenna coupler, DC in, AC out are on the test set (Webpage for available connectors/cables). 34 lb. #TS-1949-U, Used \$400; #TS-1949-UN, Unused \$895.00

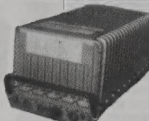
TS-1949 only, less control box, 18 lbs #TS-1949-O \$150

ARC-51BX UHF Tx-Rx

RT-742/ARC-51BX UHF Aircraft Transceiver, 225-399.99 MHz AM in 3500 available channels, 50 KHz spacing; also has guard channel. Output 16 watts min. RF impedance 52 ohm input & output. Audio and mic impedance 150 ohms. Doesn't include ID-1003 SWR indicator; separate control box necessary for function & freq-selection. W/ tubes 4/ 7077 and 4/ 7544; requires 27 VDC 13 amps. 7x9.5x15.1; 35 lbs. #RT-742, Used, \$199.00



ARC-105 HF Radio



able; Requires 115VAC 400Hz 3 Phase. 10.5x 11.5x23, 70 lbs. #RT-712, Used, \$350.00

500 KHZ IF AUDIO AMPLIFIER, IF and Audio Module from Collins transceiver. Four stage 500KHz IF amplifier w/6 khz collins filter, AGC Detector, Low level audio amplifier. Also has 3 transistor microphone amplifier as part of its function in the transceiver. Power req. IF amp 18 VDC, Mic amp 24 VDC. w/schematic, info, power connector. #105-AA, \$37.95

Precision RF Oscillator Module produces 500 KHz and 100 KHz reference signals from a temperature compensated 3 Mhz crystal oscillator. Requirements were 3 Mhz +/- 2 hz, 500 KHz +/- 0.4 hz, 100 KHz +/- 0.4 hz. Operates from 18 VDC. w/schematic, info, power connector. #105-OSC, \$35

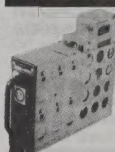
IF TRANSLATOR MODULE FROM COLLINS ARC-105, pressurized version of 618T HF TRANSCEIVER, IF TRANSLATOR module has LSB-USB filters F500 Z4 (526 9377) & Z5 (526 9376). This unit provides the mechanical filter used in the conversion of the PRC-47 transceiver to allow LSB operation. Removed from equipment not tested. 4.3x2.9x4.7, 4 lbs sh. #105-IF, \$70.00



From ARC-105 115V 400Hz 3 Phase Power Supply Module produced 1500 VDC for 400 Watt PEP transceiver using 2/7204 tubes, and 250 VDC 70 ma. 10.3x4.3x4.8, 13 lbs sh. #105-PS400, \$30.00

HF Power Amplifier from ARC-105, 400 W PEP 125 W AM 2-30 mhz in 8 bands. Module has two 7204 tubes and associated output tuning circuitry. Band selection is controlled by 28 vdc motor. The grid tuning circuitry is NOT part of this module. Output inductor is tuned with 115 v 400 Hz motor. Requirements 1500 VDC, 28 VDC, 27 VAC filament, 115V 400 Hz. #PA-105, \$140

Sonobuoy Receiver

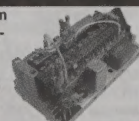


R-962/ARR-52A VHF RECEIVER 162.5-173.5 MHz AM, FM and video using 31 crystal-controlled channels. Solid-state sonobuoy receiver consists of five plug-in modules; 26 MHz 1st IF, 5 MHz 2nd IF. Conversion possibilities for 2 meters, VHF weather, satellite TV, etc. (See Oct '74 CO Mag.)

Requires external control and 18 VDC. 7.5x2.5x10, 9 lbs. #R-962, Used, \$19.95. SCHEMATIC, #SCH-R-962, \$7.00 w/ set. Manual repro for ARR-52, 52A, #MM-ARR-52, \$23.00

243 MHz Receiver

Transistorized Guard Receiver from modified RT-178/ARC-27 (5821-953-9695) UHF transceiver. One channel in 238 - 248 mhz range. IF's 25.1/3.48 Mhz. Has detector, noise limiter, AVC. 4/2N1745 transistors and 25.1 mhz filter. 8 x 4.5 x 4, 6 lbs sh. No Schematic. #ARC-27, used, \$20.00



Transponder



BC-645 Airborne Interrogator Transponder covering 460 to 490MHz. 15 tubes. Part of SCR-515. Receiver IF is 40 MHz. Transmitter is a tuned-line oscillator which operates on either of 2 pre-adjusted frequencies in the range 435 to 500 MHz. Powered by PE-101 (Not Available) from either 12 or 24 volts. 13.5x10.5x4.8, 20 lbs sh. #BC-645, Unused, \$79.50

ARC-109 Transceiver

RT-749/ARC-109 UHF AIRCRAFT TRANSCEIVER, solid-state Collins unit

operates on 225-399.95 MHz AM, DSB and A3 phone @ 30 watt min. 3500 available channels in 50 KHz intervals plus 243 MHz guard channel. Uses 4631 tube in P-A; 150 ohm audio/ mic impedance. C-6364 control necessary for channel select; cables & racks not available. Replaced ARC-27-34-51-52. Requires 115 V 400 Hz 3 phase. 6.8x9x16, 29 lbs. #RT-749, Used, repairable, \$395.00



SCHEMATICS 1/RT-749, repro, #SCH-RT-749, \$15.00

CONTROL, used, #C-6364, \$55.00 w/set purchase.

FM Transceiver



MAGNAVOX FM-622 (RT823/ARC-131) Airborne Transceiver, covers 30-76 Mhz FM in 920 channels, 50 KHz steps. Output 1 watt in LO; 18 W max HI @ 29 VDC RT has Squelch Disable & Adjust, Test switch. Meter monitors +24 V+16 V-AGC-RF FWD-REF REF-REF. Control box provides channel select, Volume, Squelch, OFF-TR-TRAN HOME switch. Has some modules common to RT-524M/RC-12. Requires 24-29 VDC 4 amp max. Rack & cables are N/A. 7.8x5.9x15.6, 31 lb #FM-622, Used w/control box, \$295.00

Collins VHF Tx-Rx Set

AN/ARC-73 AIRCRAFT RADIO SET designed by Collins; consists of

T-879 (17L-7A) transmitter, R-1123A (51X2B) receiver, C-4074 (614U) control and MT-2699 rack. T-879 covers 116 to 149.95 MHz AM in 50 KHz steps (680 channels) with 25 watt output to 133.95 MHz and 20 W min. above. Sidetone level 100 MW into 500 ohms; mic impedance 100 ohms. R-1123A covers 108 to 151.95 MHz in 50 KHz steps (720 channels). Sensitivity 3 uv; audio output 500 ohms. Both have antenna input impedance of 52 ohms and require 27 VDC (7.3 amp max transmit) power. Both utilize tubes and transistors. C-4074 control sets frequency on mechanical counter and has Volume, Squelch, and On-Off functions. Mating connector not available. Less MT-2699 mount. Operator's manual and schematics included; 9.5x8.5x16, 40 lbs. #ARC-73, used, \$189.50



TRANSMITTER only; 20 lbs #T-879, Used, \$79.50 RECEIVER only; 19 lbs sh. #R-1123A, Used, \$85.00 CONTROL BOX for frequency select, volume control, etc; w/ set purchase. #C-4074, Used, \$30.00

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

ARC-54 Transceiver



RT-348/ARC-54 VHF Aircraft Radio Set, FM unit covers 30-69.95MHz in 800 channels with 50Hz spacing, 10W, X-mode capable, 27.5VDC at 8 Amps, Mfg by Collins. 15x5x7.7, 25 lbs sh. #RT-348, Used, \$199.50

Test Panel

Test Panel for Wilcox 807

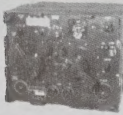
VHF transceiver with control box 97733-100, ITT Cannon connector for rear of Wilcox 807, test points for the following:

Data Link input, 0 dbm input, mike input, data link output, receiver output, sidetone output, detector meter, detector input, scope output, Mike, sidetone, and receiver audio jacks. External squelch; on/off, control, disable. Audio on/off, PTT disable. Overall dim., 15.8x22.2x8.8, 32 lbs sh. #807-TP, Used, \$135.

Control box for Wilcox 807. #97733-100, \$59.50

Rack Cabinet only from above less the front panel, control box and cables. Has a 7" height opening and an allowance of 14" deep. Has louvered sides. The top of the cabinet opens for easy access. Has 2"Hx20"W hole along the base of the rear of the cabinet. 28 lbs. #807-RACK, Used, \$45.00

GRC/VRC Equipment



RT-68/GRC TRANSCEIVER, 38-54.9 MHz FM continuously tunable or 100 KHz step channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45

MHz and fixed 1.4 MHz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmitter filaments and 90 V input. Requires PP-109 or -112 power supply. Tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11.3, 42 lbs sh. #RT-68, USED, \$130.00 TRANSCEIVER, 20-28MHz, #RT-66, USED, \$100.00

PP-112/GRC 24 VDC SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. Case may have casting chip(s); 7.3x9 x13, 39 lbs sh. #PP-112, USED, \$32.00.

PP-109 Supply, 12 VDC 12 A input. #PP-109, Used, \$40

#CX-1211 INTERCONNECT CABLE, RT: PP units, \$14



R-108/GRC RECEIVER, 20 to 28 MHz FM continuously tunable with variable squelch; 4.3 MHz I.F. Audio output: 600 ohms. RF input: 50 ohms. With tubes 3/1U4, 2/1L4, 1A3, 2/3A4, 1S5, 2/3Q4, 2/6AK5 & 0B2. Requires 135 VDC @ 70 MA, and 6.3 VDC 2 amps. 7.5x9x13.2; 32 lbs sh. #R-108, Gov't-Reconditioned, \$65

R-109 RECEIVER, same as R-108 except 27-39 MHz. #R-109, Used, \$55.00

R-442/VRC Receiver

R-442/VRC RECEIVER 30-75.95MHz FM RECEIVER. 920.50 KHz CHANNELS. Has noise and tone operated squelch. Normally used with antenna system AB-15, MS 116, 117, 118.

Power connections through MT-1898 mount and DC power cable, CX-4720 which are included. 13.5, x 5.8 x 8.9, 31 lb sh. #R-442, Used Repairable \$300.00



Vintage Equipment !!!

VINTAGE RADIO LINE ITEMS see our website for current stock. At time of printing we had these items in stock. All items are used not checked.
A-27 Phantom Antenna, \$45.00
ARC-1 VHF Transceiver \$115.00
BC-788 Altimeter, \$95.00
BC-906 Wavemeter, \$75.00
BX-28 Battery Box, \$25.00
C-847 VRC19 Speaker/Control \$35.00
CPR-46AC/ASB-5 WW-II 515 MHz Radar Receiver, \$65
CRV-21562 Power Unit, \$30.00
CV-278 Converter w/ original meter, \$125.00
I-152 Indicator, \$65.00
I-222 Signal Generator, \$50.00
PE-101 Power Unit, \$35.00
R-1/ARR-1 Receiver, \$90.00
R-5/ARR-7 Compass Receiver \$170.00
R-174/GRR-5 Receiver & PP-308 Power Supply \$250.00
RA-87 Power Supply, \$50.00
RAX Receiver, 1.4 to 9MHz, Internal AC Supply, \$75.00
RBM-3 Receiver, \$250.00
RT-7/APN-1 Altimeter, \$125.00
RT-82 /APX-6 IFF Transceiver 800 - 1300 Mhz \$100.
TS-164 Cabinet, \$35.00
Type 1 Aircraft Torpedo Camera, \$750.00
ZAC/AN1332 Canadian Remote Control, \$150.00
ZB-2 Receiver, \$95.00

USB Receiver-Exciter



RT-662/GRC-106 TRANSCEIVER, 2 to 29.999 MHz USB-AM-CW-FSK; tunes using 5-decade mechanical switches to 1 KHz

steps + vernier. Exciter output 100 MW. Controls: Service Selector, PA Load, Squelch, Noise Blanker, BFO and audio functions. LESS Signal Level meter. Requires 24 VDC 10 amp; 7x18x13, 56 lb sh. #RT-662-UR, Used Repair, not tested/LESS meter, \$300
#RT-662-CH, "Checked" w/ meter (not original), \$500

RT-834/GRC-106A, similar to RT-662 above but 2-29.9999 MHz, 0.1 KHz increments. Used:
#RT-834-UR, Repairable no meter, \$350.00
#RT-834-CH, Checked with sub meter, \$550.00

GRC-106 MODULES for RT-662 and RT-834, most modules available except 1A3 Freq-Standard removed from "used" radios. 2 lbs sh. Price: UNTESTED, \$20 ea. Add \$20 per module for "CHECKED" modules. #MOD-(specify module #-) (specify RT #-) (untested "UNIT" checked "CH")

AM-3349/GRC-106 POWER

AMP for RT-662/834; amplifies 100 MW RT output to 200 W AM or 400 W PEP. Uses two 4CX350FJ tubes. Requires 28 VDC 1 KW max; 77 lbs sh. #AM-3349-UR, Used Repairable w/ original meters, \$850
#AM-3349-AI, Used As-is, less meters, \$450.

Manual, partial repro GRC-106/106A, #MM-GRC-106, \$45
Operator's Manual, GRC-106/106A, #OM-GRC-106, \$15
HANDSET, #H-33, used-checked, \$29.95
MIC, #M-29B, used, \$14. Headset, #H-227, \$20.00
MOUNT & SIDE PLATES, 25 lb. #MT-3140, Used, \$40.
INTERCONNECT CABLE, #CX-10099, used, \$23.00
ANTENNA CABLE, 4 lbs. #CX-10171, Used, \$25.00
TELETYPEWRITER, 100 lbs, #UGC-74, Used, \$95

TRC-68 Transceiver



RT-441B/TRC-68 Transceiver 225-400 Mhz AM. 1960's vintage transceiver, basically same as RT-323/VRC-24, rated 16 watts minimum 225 to 400 Mhz. As pictured, no case, no dynamotor/power supply. Voltages required 26.4vdc 125 vdc 300 vdc. Utilizes the following tubes. 7/5670 10/5654 6442 4x150D 7554 6/6J4 6/5670 4/ 5763. 15.2 x 9.5 x10.2, 47 lb sh. #RT-441, Used, \$200.00

Manual Repro, #MM-TRC-68, \$40.00
#MT-1436 Terminal Box less cover. Unused, \$20.00

2-12 MHz USB 100 Watt



RT-671/PRC-47 HF TRANSCEIVER, 2 to 11.999 MHz USB (voice and CW+800 Hz) in 1 KHz steps. Output 100 watts PEP (Hi) or 20 W

(Lo). FSK possible with accessory converter (not available). Transistorized except for PL-177WA tube in power amp and 5907, 7761, and 7905. Has 5-place mechanical digital tuning, P-A Load and Tune controls, and XMTR Output Meter. Designed for field or vehicular use; operates from either 24 VDC 20 amps or 115V 400 Hz. 7x21.3x13.5, 45 lbs. #RT-671-UR, Used, \$175.00

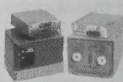
MANUAL for PRC-47, partial repro, #MM-PRC-47, \$30
LONG-WIRE ANTENNA, 3 lbs., #AS-1321, \$23.00
HANDSET, #H-33, used-checked, \$29.95
"Y" CABLE for H-233 to RT, #CX-8396, \$12.00

Battery Pack, #CX-8395, \$14.00

BACKPACK FRAME only w/ harness, #PRC-47-BF \$15.00
ALUMINUM TRANSIT CASE, 5 lbs #CY-3700, \$56.00
TUBE USED STT, #PL-177WA, \$30.00

MODULES from PRC-47 transceiver. Used not tested:

AUDIO AMP has mic, sidetone, vox & compressor circuits of TX; AGC & audio for Rx. Requires 20 & 24 VDC. 4.3x4.5x1.3, 2 lbs. #AM-3506, \$17.00



AMPLIFIER MODULATOR contains LSB 500 KHz mech filter F500-25 (#526-9376) plus balanced modulator and product detector. Requires 20 VDC; 4.3x4.5x1.3, 1 lb. #AM-3507, \$40.00
Connector set. #AM-3507-CON, \$7.00

CONTROL OSCILLATOR, 3 lbs. #C-4311, \$30.00

SIGNAL DATA TRANSLATOR with tubes 5907, 7761, 7905; 5 lbs sh. #CV-1377, \$46.00

RF OSCILLATOR contains 3 MHz crystal in oven; produces 500 and 100 KHz outputs. Requires 20 VDC; 4.3x4.5x1.3, 1 lb sh. #O-1032, \$23.00

POWER SUPPLY, 16 lbs sh., #PP-3518, \$29.95

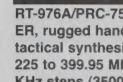
PRC-41 Manpack



RT-695/PRC-41 UHF MANPACK UHF TRANSCEIVER, 225 to 400 MHz AM in 100 KHz steps counter; output at least 3 watts over range. Also has guard channel, Volume, Squelch, and U-77 connection for H-33 handset. Solid-state except for tubes 6442, 4/7077, and 4/7544. Requires 24 VDC 3 amps;

14x11.3x4.5, 22 lb. #RT-695, Used, \$169.50
Used Checked, #RT-695-CH, \$345.00
Manual for PRC-41, partial repro, #MM-PRC-41, \$23
HANDSET, #H-33, used-checked, \$29.95
VEHICLE MOUNT for PR-3700, 4lb., #MT-2977, \$11

PRC-75 Radio



RT-976A/PRC-75 UHF TRANSCEIVER, rugged handheld ground-to-air tactical synthesized radio covers 225 to 399.95 MHz AM-CW in 50 KHz steps (3500 channels). Power output >1 watt. Has three thumb operated dials to set frequency; design frequency accuracy 1 part / 100000. Also has 1000 Hz audio beacon-DF tone. RF input 50 ohms; audio output 600 ohms. Requires 18-30 VDC from battery pack (not supplied); no accessories; 1.6x4.3 x8, 6 lbs. Look nice, complete but not working. #RT-976A, Not repairable "As-is, \$85.00

ANTENNA ADAPTER, allows for BNC coax antenna connection. #UG-1884, New, \$12.00

EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM

PRC-25/77 Backpack Radio



RT-505B/PRC-25 TRANSISTORIZED BACKPACK TRANSCIVER, 30-75.95 MHz FM in bands 30-52.95 MHz (Lo) and 43-75.95 MHz (Hi) with 50 kHz spacing.

Output: 1.1 to 2.0 watts; 150 Hz squeal.

Transistorized except 2D4 tube in power amp. Requires 3 VDC 400 ma and 15VDC 1.4 amp supplied by BA-4386 battery. RT-505B has modified A25 audio module for broadband use with C-7673/PC-1 and CU-2194 diplexer. 4x11x14, 18 lb #RT-505B, Used, \$350 RT-841/PRC-77, Similar to above, #RT-841, \$625.00

Manual for PRC-25, partial repro. #MM-PRC-25, \$23.00 Manual for PRC-77, partial repro. #MM-PRC-77, \$23.00 Backpack Harness, #ST-138, Used Excellent, \$40.00 RIBBON ANTENNA, #AT-892, used, WRITE BATTERY 1/ PRC-25-77, "weak" #BA-4386, \$3/6.00 BATTERY, 1995 X-date (no UPS or air), #BA-5598, \$7.00 ACCESSORY BAG, used, #CW-503, \$8.00 #H-250-U Handset Used with broken clip, \$39.50 Original Op's Manual 1/ VRC-53 (PRC-77 & AM-2060) #MM-VRC-53, \$23.00

ANG/GRM-55 TEST SET, used to check test points in modules of RT-505/PRC-25 transceiver and to isolate circuit problems. (Indirect tests only of modules A2, A12-13, A19-20.) Includes TS-1755 test unit, MX-4622 probe, and CG-409 BNC cable. Requires 12.5 VDC 1 W per 5 sec test. 5.5x7x8, 10 lbs sh. #GRM-55, Used, \$55.00 As above except w/ test cable CK-8593, \$75.00

PRC25 & RT524 Module Covers

Housing / Module Covers for PRC-25/77 radios. No markings on covers. Unused. A13, 15, 19 for PRC25 & A43, 45 for PRC77, #CRV-1, \$3 A16 for PRC25 & PRC-77, #CRV-2, \$3.00 A14, for PRC25 & A44A for PRC77, #CRV-3, \$3.00 A21 for PRC25 & A21A for PRC77, #CRV-4, \$3.00 A25 for PRC25 & A55 for PRC77, #CRV-5, \$3.00 A10 for PRC25 & A40 for PRC77, #CRV-6, \$3.00 A21 for PRC25 & A21A for PRC77, #CRV-4, \$3.00 A3, 4, 6, 7, 8 for PRC25 & A33, 34 for PRC77, #CRV-7, \$3 A12, A17 for PRC25 & PRC-77, #CRV-8, \$3.00 One each of the covers listed ABOVE, #CRV-25, \$15 A36 for PRC25, #CRV-A36, \$3.00 A27 Chassis cover for PRC25 & 77, #CRV-A27, \$5.00

Module Covers for RT524/RT246/R442 radios. Unused. A3400 for RT524 / RT246 / R442, #CRV-3400, \$3.00 A3500, #CRV-3500, \$3; A3600A, #CRV-3600A, \$3 A4200, #CRV-3500, \$4; A4300, #CRV-3500, \$3 A5100, #CRV-5100, \$3; A8300, #CRV-8300, \$3 One each of the covers listed ABOVE, #CRV-524, \$15 A7000 for RT246 only, #CRV-7000, \$2.00 A7200 for RT246 only, #CRV-7200, \$2.00

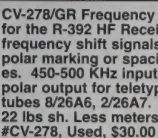
6 Meter Diplexer



CU-2194/URC DIPLEXER, passive two-port notch filter and combiner network; allows simultaneous use of two

transmitters, receivers, or transceiver on a common antenna provided that operating frequencies are slightly offset. Usable over 30-76 MHz FM for use with PRC-25-77 & VRC-12 transceivers; will work with commercial 6-meter equip. Has NULL METER, TUNE controls, Fine-Coarse-Monitor Mode Switch and RT1-RT2 BNC connections. Unit may function as man-portable relay terminal. Maximum RF power to each channel: 65 watts cont. Operational isolation: 45 dB min @ 2 MHz separation. Insertion loss: 2 DB max; VSWR 2.0:1 max. 4x11x17, 10 lbs. #CU-2194, Used, \$45.00; #MM-CU-2194, Original Manual, \$14.00

CV-27/GR Freq Shift Converter



CV-27/GR Frequency Shift Converter for the R-392 HF Receiver. Converts frequency shift signals to neutral or polar marking or spacing DC impulses. 450-500 KHz input, 20/60 ma or polar output for teletypewriter. Uses tubes 826A6, 226A7, 9.1x13.8x7.3, 22 lbs sh. Less meters & knobs. #CV-278, Used, \$30.00



PRC-6 Handheld



RT-196/PRC-6 FM TRANSCIVER, Israeli 1950's vintage single-channel crystal-controlled in 47 to 55.4 MHz range. Output good to about 1 mile depending on terrain and weather conditions. Handheld unit has push-to-talk switch, Volume Control, ribbon antenna, carrying strap and connection for H-33 handset. Uses CR-23 crystal (not included). With tubes 6/ 5678, 3B4, 3/5672, 2/5676 and 2G21. Requires 1.5, 45 and 90 VDC usually supplied by BA-270 battery (not available). 15x5x4.5, 6 lbs. #PRC-6, Used, \$120.00 Original Manual for PRC-6, #MM-PRC-6, \$12.00

Crystals for PRC-6, #PRC-6-CR-(freq.), \$1.0 to 54.0MHz Radio Frequency, \$22.00 ea All other frequencies are \$12.00 ea Specify 1st, 2nd and 3rd choices of desired frequency.

PRR-9/PRT-4 Radios

GOV'T-RECONDITIONED each single channel with crystal for 51 Mhz FM: PRR-9 RECEIVER with earphone, antenna, & operator manual. Requires 5 V 25 ma battery power; 7x3.5x1.5, 3 lb. #PRR-9-GR, \$50.00

Manual repro PRR-9/PRT-4A, #MM-PRR-9, \$18

Horn speaker for PRR-9. #PRR-9-HO, Unused, \$6

AN/PRT-4 w/ antenna & battery box, Used less crystal, #PRT-4, \$23.00

AN/PRT-4 "AS-IS", less crystal, antenna, & battery box; for parts or experiment, #PRT-4-AI \$10.

ARC-60 Oscillator

O-423/AR Oscillator-Relay provides 1KHz tone for "whistle-thru" tuning of ARC-60. 3.9x5x2, 3 lbs. #O-423, Unused, \$10.00



AN/PRM-32A RADIO TEST SET for AN/PRC-90 UHF & PRC-106 VHF survival radios. Requires one radio as receiver and another as transmitter. Tests 243 MHz frequency for beacon, transmitter MCW-voice and receiver outputs. Also Tx-Rx voice outputs for 282.8 MHz (PRC-90) and 121.5 MHz (PRC-106), earphone & battery test. Has 1.8" square meter with Red-Green scale, TX-Rx connector adapters for hook-up & operator's info. 3x 5x4, 3 lbs. #PRM-32, Used, \$32.95 Manual repro, #MM-PRM-32, \$10.00

ARC-34 Test Set

AN/URM-76A Radio Test Set for ARC-34 radio can be used as a DC voltmeter with the following DC voltage ranges: 1.5, 5, 15, 50, 150, 500. Uses 3.5 inch 50 micro amp DC meter. Case containing meter, 1% precision resistors, 20 position test switch, probes, aluminum case with cover. The unit can be easily modified for other test uses. 4.3x8x7.5, 8 lbs sh. #URM-76, Used good condition w/ schematic, \$21.95

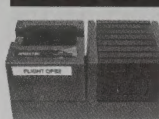


Military Battery Tester



TS-183 Battery Tester. Checks a large number of different military batteries for radios such as PRC-6, PRC-10, PRC-25, BC-620/659, GRC-9, and many many more. For a complete listing of the batteries see our website at www.fairradio.com/ts-183.htm. 10.2x15.3x7.4, 18 lbs sh. #TS-183-U, Used, \$35.00 #TS-183-GR, Gov't Recon., \$59.95

PRC-127 Battery Charger

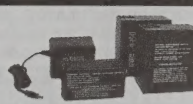


Ni-Cd Battery Charger for the PRC-127 radio. Once the charging function is complete, the unit will automatically switch to a trickle rate to maintain the charge without overheating the battery pack.

Has indicator lights for charge in progress and fully charged. Input power 15W. Slow charge rate 60 mA - 140 mA. Fast charge rate 700 mA - 1100 mA. Requires 115/230VAC 50/60Hz. 6.8x3.3x4.3, 6 lbs sh. #CHARG-127, Used, \$35.00

BB-490 Battery/Charger

Lead Acid Battery Pack with Charger, consists of two BB-490 military batteries each rated 24VDC (2x12 VDC) 1.8 Amp-Hrs @ 0.35 amps; AM5-H6 charger fits on top of BB-490 or similar batteries and shows "charging" and "ready" on LED indicators. MPS-CH2 charger power supply output 16VDC 1.5 A from 115V 60 Hz input. BB-490 used in PRC-104, etc. radios; 4.3 x 5 x 2.5. Kit 9 lbs sh. #BB-490, Unused, \$20.00; 3 for \$50.00



Military Batteries



BA-5598 LITHIUM BATTERY for RT841/PRC-77 radio; output 12.5 VDC. Two BA's fit RT battery box. Has discharge switch to make non-reactive after final use; 1995 expire date. Class 9 hazardous item; USPS Shipping ONLY. 3.5x4.8x2.1, 2 lbs sh. #BA-5598, Unused, \$7.00

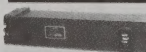
Rechargeable Nickel Cadmium Battery for PRC-68/68B/ 126/128 radios. 15 Volts 0.80 AH at 0.16 A. Date Code: 11/89. 1.5 x 4.3 x 4, 3 lbs. #406870-1, Unused, \$37.50



Military Nickel-Cadmium Battery Pack, four D-cell batteries in plastic pack produces 4.8 V 3.2 amp-Hr; 3/80 date code. 3.5x5.5x1.5, 3 lbs. #4D2704, 5 for \$10.00

BA-48 Battery for GRC-9 Receiver section. +90V & 1.5V. Date code is 0486. No stains. 8 lbs sh. All check weak! #BA-48, \$6.00

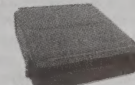
Battery Boxes



CY-7541/PRC-104 BATTERY BOX, plastic box clips onto PRC-104 backpack radio set

and will hold 16 silver-zinc (or =) batteries that provide 20-32 VDC. Side unscrews to insert batteries; 3.8x12.5x2.6, 4 lbs. #CY-7541, unused, \$22.00

CY-744 Battery Box for the PRC-10 backpack radio. 9.4x9.7x2.5, 4 lbs sh., #CY-744-U, Used, \$35.00



AA-BATTERY BOX for Trimble Navigation Trimpack GPS receiver. Clips onto & allows operation of GPS from 8 - AA batteries (not included). 1.6x 6.5x1.5; 1 lb. #GPS-13828-00, NEW, \$25.00

GRC/PRC Battery Test

AN/PSM-13 BATTERY TEST SET; checks GRC and PRC-type battery packs BA-270, -279, -376, -377, -4386/398/ PRC-25, -399, and -505. Meter indicates BAD-GOOD (FS=1 MA). With adapters U-240, -241, -314, -315, -347, -410 & canvas case. 7 lbs. #PSM-13, Used excellent, \$28.00



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GRC-109 Supply



PP-2684/GRC-109 POWER SUPPLY provides voltages for RT-3/7-84 and R-1004/RR-2 from 75-260 VAC 40-400 Hz or 6 VDC 13 amp input. Meter monitors AC input; connections for RX and Tx. 10x8.5x5.5, 28 lbs sh.

#PP-2684, Used, \$35.00

PP-2684A, Similar to above except larger case with snap closures. #PP-2684A, Used, \$43.00

Manual for GRC-109, partial repro, #MM-GRC-109,\$23

VOLTAGE REGULATOR, for use with G-43 generator and R-1004; 6 ft cord with PL-244 plug; 4 lbs sh. #CN-690, Used, \$35.00

GRC-213 Amp / Supply

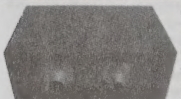
AM-7152/GRC-213 Amplifier / Power Supply / Squelch unit.

The unit increases audio output and provides squelch circuitry for the AN/PRC-104, which the transceiver does not itself incorporate. It also provides DC power for the PRC-104. The AM-7152 may be used with the RT-1209/PRC-104 to provide audio and squelch without the entire GRC-213 set, or with any other HF/SSB transceiver that does not have squelch capability of its own such as the AN/PRC-74 or AN/PRC-47 sets. Requires 24VDC. 10x12.5x3.5, 14 lbs sh.

#AM-7152, Used, \$265.00



Military Power Supply



6130-01-113-7526, Power Supply Subassembly, Has a 6 pin female, 4 pin male, and two U-228 (U-229 mate) connectors.

80064/ASSY 26962-A, MFR

97188/4129-AY1-C, Mfg by D-F Incorporated 3/92.

We were not able to find any further information on this interesting power supply. 5.7x4.4x2.2, 6 lbs sh. #80064, Unused, \$99.00

600W Power Meter

ME-165/G STANDING WAVE-RATIO POWER METER, designed for use

with T-368 400 W transmitter; uses 12/ 600 ohm 50 W non-inductive resistors in parallel to provide 52 ohm 600 W load with SWR of 1.1:1 or less

upto 30 MHz. Has 0-600 Watt meter, function switch Power-

Adjust-SWR-Operate, & N connections. Flanged on back for wall mount. 1.5x9.8x9.8, 20 lbs.

#ME-165, Gov't-Recon, \$150.00

Manual repro, #MM-ME-165, \$12.00



HF Radio Modem



Thrane & Thrane TT-1185 Radio Telex Modem. Mark / Space frequencies adjustable from 1KHz to 3 KHz. Phase con-

tinuous AFSK Keying. RS-410 type N Radio Control. Power input 90 to 240 VAC 50 - 400 Hz, 20VA. 15.5x19x3.5, 16 lbs sh.

#TT-1185, Used excellent, \$75.00

BC-1000 Accessories

Impedance Matching Antenna Adapter. Adapts the BC-1000 to a coax cable. Used, #TM-217, \$7.50



ID tag for BC-1000. New Reproduction, #ID-1000, \$20

Decal set for BC-1000. New Repro, #DCL-1000, \$20

ARC Type Connectors



Hard to find ARC connectors for the WW2 Command Sets and later ARC Type 12 Radio Sets. Some of these connectors can be used as is. Some need to have guides filed off. Much information is in the Tauson book, "A Users Guide to Aircraft Radio Corporation Receivers." Also see the ARC connector catalog reproduction. Connectors are unused unless marked Used. "M" designates Male and "F" female.

ARC #	pins	m/f	Works with	Price
16743	12	f	CV431	\$19
14320	19	f	C25 Control	\$16
14270	2	f	TYPE 12 15 Power	\$14
12427	2	m	Chassis Type 12 Rec 15 Rack	\$14
14052	4	f	T11 13 Power	\$19
12337	4	f		\$14
16104	4	f		\$16
12338	8	f	15 & Command Racks w/ Mod.	\$19
15912	8	f	Modulator Command Rack	\$19
12097	8	m	Chassis type	\$14
PL-151	6	f	Modulator and Receiver Rack	\$19

A User's Guide to ARC Corp Receivers - by M. Tauson; ARC-5, ARC-type 12 etc, #BK-USERS, \$12

ARC Connector Catalog repro, #CAT-ARC, \$6.00 each

Vintage Connectors

PL-58	EE-8	\$9.50
U-31	EE-8	\$8.50
PL-59	BC-191 / 375	\$16
PL-64	BC-191 / 375	\$23
PL-134	RU-18	\$19
PL-164	2 f SCR-522	\$16
PL-167	4 f SCR-522	\$16
PL-171	6 f SCR-522	\$16
PL-172	2 f SCR-522	\$16

Three pin connector pair.

MS3114E8-3S chassis male and

MS3116P8-3P cable female connector

pair for audio or low current

voltage use. Wire can be easily soldered to the gold plated pins.

These connectors lock together with a half turn

action. They will not come apart from vibration.

Excellent for use in vehicles and high vibration

applications. Removed from unused equipment.

#3PIN-PR, \$18.00 per set



GRC/VRC male connectors, specify type & equipment

used. #CON-(equip)-(strain="st" crimp="ct")

Used-cut-offs: Strain type, 12 each; Crimp type, \$6

Audio Connectors: #U-77, \$5; #U-79, \$10; #U-229,\$6

Terminal Panel

Military Terminal Panel with ten heavy duty push terminals with insulation and 5 pin military audio connector U-183/U that mates with the U-229 as used on many military radios. Also has 4 pin male power connector MW200(M)A00

M5511/2-01. The two connectors have rubber protective covers to resist moisture and dirt.

1.9x6.6x4, 3 lbs.

#TP-10, Removed from unused equipment. \$19.95



GRC-9 Accessories

Leg and seat for GN-58. #LG-28, Gov. Record, \$55 LG-3B Leg for GN-58. Used, PRICE PER LEG \$45.00



Crank handles for GN-58 generator. #GC-7, Used, \$40.00 per pair

Mating power connector for BC-223, #PL-149, \$21.

Antenna Base. 2 lbs sh. #IN-127, Used, \$35.00

Bracket attaches IN-127 base to RT-77 radio, French made #FT-515-FR, Used, \$6.00

As above but made in the U.S.A, #FT-515-US, \$10

Mount for RT-77, #MT-350, Used, \$25.00

Cover for RT-77/GRC-9, #CW-140, Used, \$18.00

Long Wire Antenna "As-Is", may have wire breaks:

#AT-101, 4.3-12MHz, \$16; #AT-102, 2-4.3MHz, \$18

#MM-GRC-9, Original Manual for GRC-9, \$25.00

Radio Cables

CX-4720 Six foot VRC-12 power cable. Unused, \$12.00

CX-4721 Extension Cable for DC power 10ft. Unused,\$20

CX-4722 VRC Control Cable, 15 feet, \$18.00

CX-4723 VRC Control Cable, 4 foot, \$14.50

CX-7059 Cable C-2742 to RT-246, Unused, \$22.00

CX-7867 AUDIO CABLE, 25' U-229-/228, \$12.00

CX-11016 2/19 pin male connectors 6 ft. Unused, \$12.

CX-12991 KY-57 to PRC-77 CRYPTO cable NSN 5995-01-058-2513. Used, \$14.00

CX-13089 Vehicular power cable for use with MX-7777 or vehicles with 3 pin power sockets. 5 ft 4 conductor #14. Unused, \$12.00

Vehicle power socket 3 pin female to mate with CX-13089 cable. #CONN-13089, Unused, \$14.00

36" long cable with a GRC 4 pin female connector for T-195, GRC-106, GRR-5, etc. on one end. May need rewired for proper connection to radio. The 4 pin connector is a commonly used on many GRC equipment for power in. 2 lbs. #GRC-CBL-36, Used, \$26.95

CD-670 HV Cable for BC-191 / BC-375. Has PL-59 female connectors on each end. 5 foot long. \$50.00

#CX-13134/U DC power cable 3 pin connector fits MX7777, Crown CD229935-2P, and 4 pin PToE-8-4S. Unused, \$14.00

#CX-13143 6 Ft DC power Cable for the AM-4979 and AM-6747 amplified speakers. Unused, \$14.00

#CX-13306/VRC Sincgars Power Cable 2 ft, \$18.00

Crypto Cable RT-1209 PRC-104 to KY-99. 2 feet.

#CBL-104, Used, \$20.00

#SM-D-915890 Battery back up cable for UGC-74

MS3116E-12-35, other end fits the batteries used

with PRC-25/77. Unused, \$17.00

U-77 to U-229 Coiled Audio

Cable. 8 foot long stretched.

#SM-D-875498, Unused, \$17.00



Adapter, 33" cable with a U-77 audio connector on one end and two U-79 connectors (mates to U-77) mounted on a panel box on the other end. #J-654, Used, \$14.00

Spanner Wrench

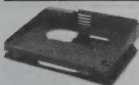


Spanner Wrench for Military GRC Connectors. Fits the retainer ring on the GRC and VRC connectors. Makes it much easier to take those connectors apart. Set contains the

following sizes: 0.6", 1.25", 1.45", 1.6", 1.85". 1 lb sh. #SPAN-GRC, Need cleaning. \$16.95

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

Radio Mounts



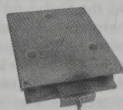
MT-1029/VRC Vehicular Mount for RT-246 & RT-524/VRC-12 transceivers. 5x12.5x16, 19 lbs. #MT-1029-U, Used, \$35.00; #MT-1029-GR, Gov't-Recond., \$60

MT-1898/VRC Mount for companion R-442 receiver 5x6x12.3, 15 lbs.

#MT-1898-U, Used, \$30; #MT-1898-GR, Recond., \$38

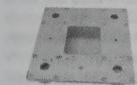
ARC-164 Mount, retrofit ARC-164 into ARC-34 mount. Rear rack connector & front plug for ARC-164. 5x13.8x11, 11 lbs. #MT-6147, Used, \$30.00

Robinson Aviation shock mount 848-2. Looks like its good for about 5 pounds. For base 5.5 x 7.5 inches with screw clamp on front. 2 lbs sh. #848-2, Used, \$12



TCS Transmitter / Receiver shock mount. Shockmounts are not original, but look correct. #MT-TCS-4, 4 shock mt, \$40 #MT-TCS-6, 6 shock mt, \$45

MT-4658 Mount for ARC-159. 3 lbs sh. #MT-4658, Used, \$23.00



FT-161 Mount for BC-357 Beacon Receiver, 3 lbs sh. #FT-161, Unused, \$10.00

MT-759 Mount for AM-598. Less canvas strap. #MT-759, Used, \$18.00



MT-6378 / GRC-193 Mount for CU-2064 Antenna Tuner. This mount has the base for the antenna. #MT-6378, Unused but hasn't been in packaging for a while. \$170

MT-6233 / GRC193 mount for AM-65445, CU-2064, AM-6879. #MT-6233, Unused, \$275.00

AIC-10 Intercom System



RE-94 / AIC-10 Interphone Control includes AM476 solid state audio amplifier, call button, volume control. 27VDC required w/schematic. 5.6x3.6 x3.6, 4 lbs. #RE-94, Used, \$16.95

LS-184/AIC-10 Aircraft Dynamic Loudspeaker with AM-492 amplifier, usually used in the fuselage of larger aircraft and in the wheel well for ground crew communication. Power required 28 VDC and 170 VDC for 4/5718 or equal tubes. 7.3x8.2x4.2, 6 lbs sh. #LS-184, Used, \$29.95 7 pin connector for above, #7P-LS184, \$21.00

TM11-5831-200-35 Field and Depot Maintenance Manual Intercommunication Set, AN/AIC-10 Covers C-823, C-824, C-825, AM-476, AM-476A, DY-77, DY-76, RE-94, LS-184, AM-492. #MM-AIC-10, Repro, \$40.00

Patch Panel



SB-3189 Audio Communications Patch Panel. Normal 1/4 inch phone fits 52 pairs ADC jacks. Jacks are spaced for double phone plug.

Each jack 2 normally closed and one SPDT. Some panels are red, some are grey. 17.5x19x7, 31 lbs sh. #SB-3189, Used good condition, \$169.50

Canvas Bags & Covers

BAGS & COVERS may be used or unused. May have minor wear, tears or discolor:

CW-212 Canvas Bag for GRR-5 with adjustable straps; 10x9x5, 4 lbs. sh. #CW-312, \$35.00 each



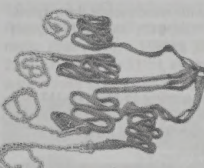
SHOULDER BAGS with adjustable straps; Used:

#BG-175, 10x8x10.5, \$18.00
#CW-189, 10x9x10, \$12.00

GRC/VRC EQUIPMENT COVER

#CW-140 for GRC-9, Used, \$18.00
#CW-329 for GRC-3-8, Unused, \$16.00

ANTENNA ROLL BAGS 1/ MS-116 etc mast sections, #CW-206-U, Used, \$7; #CW-206-UN, Unused, \$18. #BG-174, Used, \$18.00



Cargo Sling-Heavy Duty Tow Straps.

This item is a 15,000 pound cargo sling and consists of four sections, each is constructed of four 15 feet seat-belt type OD nylon straps which are looped on one end with an 76

inch chain and catch arrangement on the other. The loop ends are all joined together by a large loop of webbing. This loop can be removed to separate the four individual straps for use as tow straps or whatever. #CS15K-SLING, 105 lbs sh. Unused, \$79.50

Single strap from above w/ chain and catch, #CS-STRAP, 25 lbs sh. \$30.00

BC-620 / 659 Accessories

ALIGNMENT ADAPTER for BC-659 transceiver; allows changing of crystals and alignment of the set without the use of an external meter. Moun inside the BC-659. 2 lbs sh. #M-399 \$6.50 Adapter 1/ BC-620, #M-394, \$6.50

ALIGNMENT TOOLS for BC-620/659: #TL-150 or #TL-207, \$6.50

RIGHT ANGLE, #MC-136, \$6.00

T adapter for MC-124, #MC-203, \$9.50

MC-127 Spin Tuning Knob for spline ARN-6 & BC-229, #MC-127, \$9.50

TA-145 Switchboard



TA-145 Telephone Repeating Coil Assembly Switchboard, Consists of a row of 12 pairs of binding posts, a row of pin jacks, and 4 repeating coil which is supported by brackets attached to the terminal board. Originally used with TA-125 Terminal Box. 14x5.5x2.5, 10 lbs sh. #TA-145, Used, \$29.95

Directional Coupler

Rockwell Directional Coupler for the AN/GRC-171B 20 watt, 200-400 MHz transceiver. SMA connector for RF input. RF output uses BNC connector. NOS# 5985-00-588-5285, 4.8 x 1.3 x 1.3, 1 lbs sh. #ROCK-DIR, \$30.00



225-400 MHz DIRECTIONAL POWER DETECTOR used in AM-6155 UHF power amplifier.

Rated 65 watts forward; 15 watts reversed. Forward/reversed DC output proportional to output/mismatch; sub-mini connectors provided. "N" RF connections; 4.5x1x1.3, 1#. Coaxial Dynamics #3023, Used, \$21.00

TA-1 Phone



TA-1/PT Telephone, sound-powered unit requires 2 conductor field phone wire connected to another TA-1 for communication without batteries. Palm-operated generator provides approx 100V to "buzz" signal another phone; also visual indicator. Has coil cord with push terminals for wire hook-up and plastic carrying case. 8.5x3.5x3.5, 4 lbs sh.

#TA-1, Used Checked, \$65.00 each; 2 for \$120.00

TA-312 Field Phone

TA-312 FIELD TELEPHONE rugged light-weight unit replaces famous EE-8 field phone and is usable with them. Includes G-42 crank generator, B23 clacker call signal, H-60 handset, and canvas carrying bag w/ strap. Requires 2 D-cell batteries (not supplied). 12x7x4, 12 lbs.



#TA-312, USED-CHECKED, \$110.00 Manual for TA-312, partial repro, #MM-TA-312, \$14.

TA-341 Phone



TA-341/TT TELEPHONE SET push-button 4-wire unit for use with tactical switches using four C-cell batteries; usable in conventional point-to-point telephone line (plug may need changed) Range >3.2 km. Signal out 900-3400 Hz digital tone; 90 V 20 Hz signal in. 4.5x10.5x10.5, 10 lbs. sh. #TA-341, Used, \$25.00

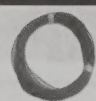
TA-954 Phone

TA-954/TT NON-SECURE DIGITAL VOICE TERMINAL used in Tri-Tac comm-system; 4-wire set xmits and receives diphas-modulated digital voice and loop signaling info at 16K or 32K bits. 125 ohm line impedance 125 ohms; range 4 km using WF-16 field (no stock). Requires 24-56 VDC, Tone pad has characters 0-9, FO-F-I-P-R-O-C; also Volume L-H Ring - Receive & H-350 handset. Plastic case is EMU/EMC static protected. 7.3x4.5x10, 8 lb sh.



#TA-954-GR, Government Reconditioned, \$125.00

Field Phone Wire



Field Telephone Wire, WD-1A/TT twin lead zip cord style grey, green, or brown vinyl-covered steel wire. Intended for use with EE-8, TA-43, TA-312 and similar field phones.

100 feet of WD-1A wire less spool, #WD-1A-100, \$20 50 feet of WD-1A wire less spool, #WD-1A-50, \$10

Antenna Tether Wire

306 FOOT SPOOL of vinyl-covered braided #22-size intended for use with above; usable on the ground as long-wire antenna also. On spool; 3 lbs. sh. #SEB-400X3, unused, \$14.95



Hydrogen Generator

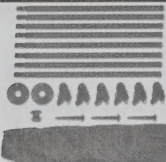


M315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grs

of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) Cans are dented; suitable only for recovery of calcium hydride. 11.6"L x4.3" dia, 4 lbs. #M315B, Unused-dented, \$10.95

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRADIO.COM

Mast Kits



29.6 foot Mast Kit comes with eight 1.8" diameter sturdy fiberglass mast sections, two high quality plastic guy rings, 300 feet of rope (cut according to your need), three guy stakes, insulator, and weather proof bag. 55 lbs.

#ANT-KIT-29-U, Used, \$159.50
#ANT-KIT-29-UN, Unused, \$199.50

12 foot Military Mast Kit. Comes with: three 47" long x 1 3/8" fiberglass mast sections, one 8" top mast section which holds two horizontal aerial antennas and also has 16 feet of RG-58 coax with a male BNC connection at the end, two 28" antenna elements that thread to the top section, one guy ring with guy rope, three 9" stainless steel stakes, one 27" long mast base which mounts directly into the ground, and O.D. green carrying bag with handle. There is no indication of a model number on the assembly. Excellent for field day or other portable antenna use. 12 lbs sh. Unused, #MK-12, \$55.50 ea As above except with Ground Plane Antenna. #GPA-MK-12, Used, \$49.50 Mast Section only, #MS-MK-12, Used, \$12.00 each

HEAVY DUTY NYLON BAG, ideal for mast kits along with MANY other applications! High quality Cordura Nylon is coated for water repellency, rot and is mildew resistant. Bag has 1 1/2" web handles that wraps around bag for added strength. Two zipper slides for easy opening. Overall size: 44" long x 9" deep x 7" tall. 3 lbs sh. Comes in OD Green. #BG-1244, New, \$39.50 each; 3 / \$99.50

Mount Brackets

BRACKET for mounting 2" dia antenna bases like AB-15 to vehicles or other flat surfaces. Mount plate 6.3"W x 4"H; base hole center extends 3.9" from plate. 4 lbs. #SM-B114371, Unused, \$15.00

Angle Bracket for attaching MP-50 or similar mount bracket to corner of vehicle. Bolts for MP-50 and drilled for side mount; 5 lbs sh. #SCC-28591, Unused, \$13.00

Guy Ropes

MX-516 Halyard, 140' nylon rope, insulator & pulley Used with AB-155 & AS-244. Used, \$14.00

GUY ROPE SET, 3x20' lengths, #GY-12/42, Used, \$9

ROPE, 80', #M378, \$7.00; 10', #M379, \$4.00

12" Guy Stake

12" Aluminum Guy Stake. Has 1/4" diameter hole near top of stake. #GS-12, Used, \$3.00; 5 / \$10.00

Aluminum Guy Stake, Overall length 7.3" x 5/16" diameter. #GP27B, Used, \$3.00; 4 / \$10.00

Mast Sections

3-FOOT MAST SECTIONS (Left), WW-2 & Korean War vintage: painted copper-coated steel. Sequentially screw into the other; 3/16" dia MS-49 top section the smallest. Self-supports to 15 ft; MS-53 can fit into another MS-53; 1 lb sh. May have surface rust; We no longer have the MS-51 which is necessary. Select from MS-50-52-53, #MS-(specify #-)U, Used some rust, \$4.00 ea #MS-(specify #-)UN, Unused, \$7.50 ea MS-54 Mast Section. Unused, #MS-54, \$12.00

MS-116 & MS-118 MAST SECTIONS, each 39.3"L. MS-116 is stackable bottom section, MS-118 tapered top; fit AB-15, AB-652, MP-65 & UG-558 bases. 1 lb ea. MS-117 mast is no longer available. #MS-116-U, Used, \$4.50; #MS-118-U, Used, \$7.50 Unused, Unpainted Masts with removable dark spots. #MS-116-UN, \$9; #MS-117-UN, \$13; #MS-118-UN, \$11 #AB-21-UN, \$9; #AB-22-UN, \$11; #AB-24-UN, \$9; #AB-24-UN, \$9

AB-21 23-24 Mast Sections, similar to MS-116-117-118 except 27" length each. AB-21 is bottom & stackable section; AB-24 is less the ball tip. 1 lb each. #AB-(specify #-), used, \$5.50ea

PRC-Type Antennas

AT-272A RIBBON ANTENNA & AT-272 FLEX-BASE SET for PRC-8-9-10; 2 lbs #AT-272, Unused, \$18 SHORT FLEX BASE only 1/ AT-272A, #272-B0, used, \$4 SHORT FLEX BASE only 1/ AT-892, #892-B0, used, \$12 RIBBON only for AT-272A, used, #272-R0, \$10.00 RUBBER BASE 1/AT-271 (PRC-8-9-10) #AB-129, \$5.00 RUBBER BASE 1/AT-271 (PRC-25-77) #AB-591, \$12.00 37.5" Ribbon Antenna for PRC-126 and PRC-128 but not PRC-68. 2 lbs. #37695721153-3, Unused, \$14 RIBBON ANTENNA 1/ PRC-6 radio, #PRC-6-RA, Used, \$12 WHIP 1/ Canadian CPRC-26, #AT-5001, used, \$10.00 M-422 ADAPTER for using MS-116/AB-23 masts with PRC & BC-1000 as long antenna, #M-422, \$10.00

Mast Bases

AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 masts; rubber flex spring with 3.3"Lx3" dia ceramic insulator & bottom terminal. Mounts in 2" dia hole. O/a 15"L, 3 lbs sh. Used with small chips in the ceramic insulator, #AB-15-U, \$10.00 As above but used good condition, #AB-15-UG, \$18

AB-558 BASE for MS-116-117-118; mounts to SC-D-189023. 16"Hx6" dia; SO-239 conn. #UG-558-U, Used, \$15.00 As above but unused, #AB-558-UN, \$40.00

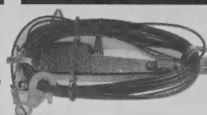
MP-68 MAST BASE, makes ground plane antenna when used with combinations of AB-21-24 or MS-116-118 whip masts installed as three radiating elements plus one vertical. Has center 3" dia ceramic feed-thru insulator with UHF connection and sockets for elements. Clamp on bottom allows installation on top of 1.6" dia masts like AB-35 (RC-292) or MS-44 (AB-155). 13"Hx5"Wx5"D, 5 lbs. #MP-68, Used, \$35.00

IN-127 Antenna Base holds three MS-116 and one each MS-117-118 mast sections. 14.5"L black plastic. 2 lbs #IN-127, Used, \$35

Mast Adapter

Mast Adapter. The top fits AB-85, MS-44, & AB-35 masts with an outer diameter of 1 3/8". The bottom has an inner diameter of 1 1/16". It is 8.7" long. 2 lbs sh. #MA-44, \$12.00

Steel Guy Assembly



1/8 inch steel guy cable on steel bracket with locking pulley and tension adjustment. Use for field day antenna guy or other wire support use. May not have plastic over steel cable. 9 lbs., Used,

#GUY-44, 44 ft, \$26.00
#GUY-62, 62 ft, \$32.00

Crystal Radio Kit

All the parts you need to construct a crystal radio. 3 plate sliding capacitor, 10 sided (Decagon Loop Antenna), germanium detector diode, and high impedance ear piece. Tunes broadcast band. Because of the large loop antenna, an outside antenna is not required. The capacitor and loop need to be assembled. Hardware, information and necessary parts included. 1 lbs sh. #CP-10DEC, Unused, \$27.95



Same as above except a Hexagon loop (6 sides) 330 microhenries, aperture of 153 sq in. #103DE, \$24.95

Loop Antenna, (as pictured above) Each loop is constructed of interlocking plastic structural bars and spreaders to form the loop. The spreader has notches for 24 turns of enameled wire which is wound around the framework. Each section of the loop is approximately 3"x7.5" Hexagon loop kit (6 sides) 330 microhenries, aperture of 153 sq in. #6HEXLOOP, \$9.95 Octagon loop kit (8 sides) 490 microhenries, aperture of 280 sq in. #8OCTLOOP, \$12.95 Decagon loop kit (10 sides) 660 microhenries, aperture of 440 sq in. #10DECLOOP, \$14.95

Flat plate sliding capacitor kits use w/ above loops. Three plate capacitor 10 - 180 pf #3PLATECAP \$13 Five plate capacitor 10 - 365 pf #5PLATECAP \$15

Loop Antenna



AT-784/PRC DIRECTION FINDER LOOP ANTENNA for use with PRC-25 -77; covers 30-76 Mhz in five bands. Controls FINE TUNE 0-10 Mhz in 1 Mhz steps and ATTENUATOR 0-40 DB in 10 db steps. Includes AT-1082 loop with whip, and 8 foot cable. Collapsed size 8x6x3.5, 5 lbs. #AT-784, Used, \$39.95

Manual repro for above. #MM-AT-784, \$18.00

AS-2360 Loop Antenna receives 0.53 Mhz to 10 Mhz, useable to 20.5 Mhz. Impedance 50 ohms, Null depth 25 db, bearing error less than 2 degrees. Originally part of TRQ-23 radio receiving set. The base of the loop contains a loop cathode follower with varactor diode for tuning, two rf amplifiers, and an output cathode follower using 4/6612 tubes which require 36 v B+, 1.1v filament. Tuning voltage 0-102 vdc, gain voltage 0-37 vdc, sense relay 24 vdc. Comes with canvas bag. 6.4x26.2x61.8, 30 lbs sh. #AS-2360, Used, \$250.00

TRQ-23 Op's Manual & Schematics repro, #OM-TRQ-23, \$23.00



CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313

C. Crane Antennas



AM Antenna with Twin Coil Ferrite. The biggest advancement in AM radio antenna design in over 50 years! The best

compact AM antenna for a portable radio or home stereo. It increases available daytime stations dramatically and reduces nighttime fade out by 99%! Can also eliminate heavy static and distortion. Tuner Size: 3.3" W x 4.3" H x 1.3" D. Antenna Head Size: 8.5" W x 2.5" H x 1.3" D. New, #TCA, \$99.95

Remote Kit, you can set the Antenna Element closer to a window or even outside, away from the noise and interference. You'll dramatically improve reception on weak AM stations in brick, stucco or metal-sided homes, and virtually eliminate static.

25' remote installation kit. #J25, New, \$19.95
50' remote installation kit. #J50, New, \$29.95

The FM Reflect is an affordable FM antenna that is equal to or better than the best indoor antenna made. Great signal to noise ratio.



Works with any portable or stereo receiver. Incorporates a new dipole design for maximum gain across the FM band. Up to 213% more powerful than a standard dipole antenna. Comes with "F" connector, balun spade connector and alligator clip. Size: 54" element with an 8' feed line. 2 lbs sh. #FMW, New, \$24.95

ARC-60 Antenna



AT-701/ARC-60 UHF Antenna is a quarter-wave, base fed, inverted L-type design 6" vertical x 7" horizontal x 1/4" dia. 2 lbs sh. #AT-701, Used, \$12.00

UHF Dipole Antenna

AT-413/TRC DIPOLE ANTENNA for 225-400 MHz, originally part of large array. T-top elements extendable 3" each end to adjust reception; 20" max T-width. Mount flange moves to adjust height. Type C connection on bottom. O/a 15.5"H, 12 lb. #AT-413, Unused, \$19.95



AS-1729 Parts

#MX-6707 Base. Used, \$100.00

Mast Spring only for MX-6707; 4 lbs.
#AS-1729-MS, Used, \$12.00

Upper Mast. 64" long, 4 lbs. #AT-1095, Used, \$21.00

TIE-DOWN KIT for AS-1729 including tie-down rope and plastic cap for AT-1095, #AS-1729-TD, New, \$10

Manual repro for AS-1729, #MM-AS-1729, \$18.00

MOUNTINGS for MX-6707 p/o AS-1729, USED:

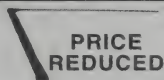
#SCD-189023 f/ base. unused, \$25.00

#SCD-446058 corner. used, \$10.00; unused, \$25.

EXTENDER for SCD-446058.

#445058-EX-U, used, \$7; #445058-EX-UN, unused, \$12

Blade Antenna



#5985-168-8383, Unused, \$50.00; 2 for \$75.00

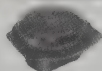
AS-2485/ARC-114 BLADE ANTENNA used with 30-76 MHz ARC-114 radio set; BNC connection. 24"H x 42"L, 15 lbs sh.

Rams-Horn Antenna

AS-580A/ARN-30 Rams-Horn Antenna with two dipoles. The forward dipole is used as a glide-slope antenna while the rear dipole is used as a VOR and localizer antenna. Each antenna is terminated with a BNC connection located on the base. Antenna originally used with the ARN-30D aircraft radio that covers 108 to 126.9MHz. Overall 23.8"Dx17.3"Wx11"H, 6 lbs sh. #AS-580, Used with some cracks in the plastic, \$40.00



LF-DF Antenna



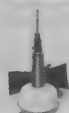
AT-780/ARN-59 DIRECTION FINDER ANTENNA, 190 - 1750 KHz. Has ferrite loop, 26 V 400 Hz motor & Tx selsyn for drive direction. Operates in circuit on

26 V 100 Hz. W/ 14 error compensator screws, 0-360 scale visible under glass dome & schematic. 3.8x6.5x6.5, 8 lbs. #AT-780, Used \$36.00
#NG-AT780, above no glass, \$26.00

AS-313/ARN-6 DF ANTENNA, similar in function to above, but earlier design; 10x11x5, 18 lbs sh. #AS-313, Used, \$35.00



Hy-Gain Antenna



HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES, include 52" whip, 2.5"H spring base, 18" RG-58 coax cable, PL-259 connector & UG-175 reducer; 5 lbs sh. unused, \$12.00 ea:

#761 (30-33MHz) #767 (33-36 MHz)

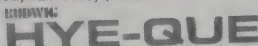
KATHREIN WHIP, 64-470 MHz; cut 4 foot length; 1-hole mount, 15' RG-58 coax. 4 lbs. #K50-54-4, \$18.
+ + + + +
TELESCOPING CHROME ANTENNAS, \$3.50 each:
#TCA95-380, 9.5"L to 38"L; 6-32 thread mtg screw
#TCA84-144, 8.4"L to 14.4"L; 5/32" dia base hole
#TCA60-125, 6"L to 12.5"L, 10-24 thrd mtg screw

CB Antenna Mount

Chrome-Plated Steel Spring. For 3/8"-24 Threaded Whip. With hardware. 4 1/8"H x 1 5/8"D. Unused, #21-1118, \$12.00



Chrome-Plated Swivel Ball Mount Base. For 3/8"-24 Threaded Whip. With hardware. Unused, #21-1115, \$12.00



BUDWIG HYE-QUE dipole center antenna insulator & strain connector for long-wire set-ups; full legal power capacity & weather-tight polymer construction. Strain assembly with PL-259 connection for lead-in wire drop. #HQ-1, NEW, \$11.15
#HQ-2, insulator pair, New, \$2.86/ pair

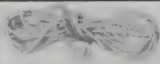
Cellular Antenna



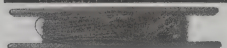
Cellular Mobile Antenna by Antenna Specialists with trunk lid mount. 824 to 896 MHz with 3DB gain. Antenna capable of adjusting 25 degrees any direction. Antenna has a female TNC connection. Kit comes with 15 feet of RG-58 cable with a male TNC connection on one end, cord clip, mylar tape, bracket channel, a separate TNC male connector, and allen wrench. Antenna with mount stand around 30". 3 lbs sh. #ASP-917, Unused. \$21.95

Long Wire Antenna

AS-1321/PRC-47 LONG WIRE ANTENNA 45 ft vinyl-covered with insulators at 15" and 25"; clips at insulators adjust length. Designed for use with 150 W HF transceiver; 4 lbs. #AS-1321, Used, \$25.00

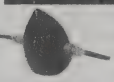


Dipole Fixture

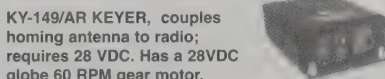


DIPOLE FIXTURE, part of PRC-74 long-wire antenna set. H-shaped has 25i vinyl-covered 2-conductor copper wire: 2.5x12x1, 3lbs sh. #DP-MK-911, Unused, \$7.00

Impedance Match

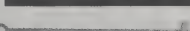


CU-459/AR IMPEDANCE MATCH NETWORK, black plastic bullet-shaped designed to mount to aircraft wing. Holds two AT-624 antenna elements (not available); 50 ohm BNC-con. P/o AN/ARA-31 24-49 FM MHz homing set; 4.3x3.3. 2#. #CU-459-UN, Unused, \$9.00
As above except used, #CU-459-U, \$4.00



KY-149/AR KEYSER, couples homing antenna to radio; requires 28 VDC. Has a 28VDC globe 60 RPM gear motor. 23x7.7x4.9; 3 lbs #KY-149-U, Used, \$12; #KY-149-UN, Unused, \$17.95

Screw Anchor



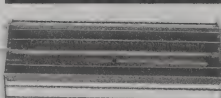
20" long Antenna Screw Anchor. 3" diameter. 4 lbs sh., #ANCH-103, Used, \$16.00

Trailing Wire Antenna

WT-7A Trailing wire antenna weight 4.25" x 2.5" on 12" leader. 5 lbs sh. Used, #WT-7A, \$18.00



Trough Antenna



TROUGH ANTENNA. No info on this, but we put a sweep generator and spectrum analyzer on a pair and they seem

to work with good response from 900 to 1200 mhz. The frame is fiberglass and there is a dipole about 5 1/8 inch overall with reflectors about 24.5 inches long. Connector is HN type. Overall size 25x10x5, 8 lbs sh. #ANT-TROUGH, Unused, \$49.50

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Microphones



600 ohm Uni-Directional Dynamic Microphone. Frequency

response: 50-15,000Hz. Effective output Level: -54dB. 8.5' cord with a gold plated two way plug for 3.5mm or 1/4" phone plug. With on/off slide switch. Mfg by Merry.

#DM-35. Unused, \$5.00 ea: \$3/12.00

Handheld Dynamic Power Microphone. Impedance of 1.2K ohm. Frequency response of 300-6KHz. Coiled cord with a 4 pin female connector. Marked

TransVideo but made by Merry #DMC-510, Unused, \$15 each; \$3/30



GM Delco Microphone for mobile communications; black with PTT switch, coil cord and 5 pin male connector. #GM-DEL-MIC, Unused, \$12.00

T-45 MIC Carbon type 100 ohm 50 db below 1 mv, flat response with PL-291 two contact male plug, 11" cord. #T-45, Unused, \$9.50



LIP MIC for CW49507 or H-62 headset; 100 ohm, #CW-51071, \$23.00

#M-29B MIC with U-77 plug; for T-195 T-368, etc. USED \$14.00

#M-52 MIC with 5 foot cord & PL-68 plug. UNUSED, \$14.00

#M-80C MIC, unused, \$16.00

***** WW-2 CHEST SETS



#T-26A, Recond, \$9.00; #T-46/TD3, Used, \$9.00

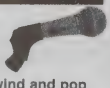
RS-83 Mask type Aircraft Microphone by Telephonics. Mic is Hi-Z (100K ohm) and has a 16.5" cord with a 33" extension cable that has a push to talk switch. #RS-83, Unused, \$18.00



Shure Mic

Shure Unidirectional Dynamic Microphone. Ball-type. Dual Hi Z & LO Z impedance. Spherical grille is a very effective wind and pop filtering. Ideal for closeup vocal miking.

Symmetrical cardioid pickup pattern minimizes feedback. Lockable On-Off switch. Frequency response 80 - 15KHz. 3 pin XLR connector. Swivel adapter. 3 lbs sh. #588SDX, Unused\$70



Handsets



H-250 HANDSET w/ push-to-talk button, coil cord & U-229 plug. #H-250-U, Used w/ broken clip, \$39.50

#H-350, Used Checked, \$40.00

H-33/PT HANDSET for GRC-3-8, PRC-10; Has stretch coil cord with U77 plug. #H-33, Used Checked, \$29.95

TS-9* HANDSET, p/o EE-8 field phone; 2 lbs. #TS-9, Used, \$19.95



TS-9 Handset wired like TS-13/15 for use with BC-1000 radio. #TS-9-1000, Used checked, \$30.00

Handset f/ BC-1000, #H-23 (or =), \$40

H-90 HANDSET, like TS-9 but w/ U-77 plug; #H-90, \$14.00

Beige Standard Handset newer style mfg by ITT, #BEIGE-H, Unused, \$4.00

JEN-20 HANDSET w/ AMPLIFIED receiver for hearing impaired; black or beige. #JEN-20, NEW, \$18.00



Western Electric Handset with 1903 patent date; black painted brass handset with PTT-switch appears to be same as TS-7 handset used with pre-World War-2 EE-5 field phone. 3-wire cloth cord. 4 lb. #D14842, used, \$50.00

Plantronics Headsets

Starset Supra Amplified Operators Headset with voice tube by AT&T. Cushioned earpiece with adjustable headband. Comes with clothing clip and plug amp. Brown color. Unused in the original packaging. 2 lbs sh. #KS22990-L1, \$34.50



ACS Operators headset that fits over the ear with six earpieces of various sizes. Has dual connector with 1/4 inch plugs (similar to PL-55) for connection to system.

#SMD-0-102-15, Unused, \$35.00

Headbands



Hard to find HB-7 Headband for the famous HS-23 and HS-33 headsets. Less connector. 2 lbs sh. #HB-7, Used good condition, \$49.50

Old Military Black Leather Headband. Holds a 1 3/4" receive element. 2 lbs sh.

#BLK-BAND, Unused fair condition, \$14.00 each; 2 for \$24



Headband by Murdock f/ R-14, #HB-5, \$16.50 each; 2 for \$26.00

Headsets

VRC-12 HEADSETS



H-251 HEADSET w/ vinyl cushions, 24" coil cord; black color.

#H-251-U, Used, \$10

#H-251-UN, Unused, \$14

#H-251-A-U, Used, \$12

#H-251-A-UN, Unused, \$18

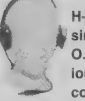
H-161E HEADSET with 300 ohm boom mic, push-to-talk switch, & CX-8650 Y-coil cord; vinyl cushions. Black.

#H-161E, Unused, \$69.50



H-195 HEADSET & BOOM MIC, rubber-covered single 300 ohm phone element, 40 ohm mic & push-to-talk switch. Similar to H-144 except has 10 foot cord with PJO-55 & -68 plugs; 4 lbs sh. #H-195, Unused, \$30.00

WIRELESS HANDS-FREE HEADSET for two-way FM radio communications in high noise environments. Uses throat mic and ear cushions with EPA noise-reduction rating of 23 DB. Operates on 49.86 Mhz; controls for Volume & Squelch, Velcro adjustable head web and mic straps, 6" antenna and fiberglass case. Requires two 9 V batteries; #7800H, New, \$85.00



H-113 600 OHM HEADSET, similar to CW-49507 except O.D. green color with cushions and PL-54 plug on 18" cord; 3 lbs sh. #H-113, unused, \$8.95; 2 for \$15

HS-30 HEADSET 250 ohm impedance light-weight WW-2 era set has cord wired to CD-604 500-4000 ohm matching transformer and PL-54 plug; 3 lbs sh. #HS-30-U, Used, \$12 #HS-30-UN, Unused, \$24.00



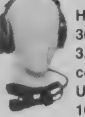
H-63 HEADSET and BOOM MIC, 600 ohm receive and 100 ohm M51 mic elements; with JJ-055 and 3-pin jacks. 3 lbs. #H-63, Used, \$9.95

H-264/PRR-9 EAR-PLUG HEADSET, coil cord & 2 mm dia jack; 300 to 2500 Hz response. #H-264, NEW, \$5.00



CTE49214 headphones f/ WW-2 MAB radio; no skull cap, #CTE49214, \$9.00

H-227 HEADSET, with two 300 ohm elements in 4" x 3.5" vinyl cushions, 42" coil cord, and U-77 plug. Used with GRC-3-8, GRC-106 radios. OD-green & black; 2 lbs. #H-227, Used, \$21.95



Accessories



GSA-6 CHEST GROUP SA-142 PPT-switch & CX-1077 cable w/ U-77

plug connect H-63 headset to GRC radios. #GSA-6, Used, \$7.50

PHONE PLUGS,

#PL-354 red. used, \$5.00

#PL-55 on 30" cord. used, \$2.50

PL-55 equivalent 1/4" phone plug with no cord. #M462/4-1, Unused, \$2.50

PL-55 on a 5 foot cord. #CX-1201, Unused, \$5.00

PL-68 (or =) Mic plug. #PL-68-U, \$5;

DOUBLE PLUGS, unused:

#D178542 (WE289) for headsets, etc. \$4

#2PPC f/ switchboards, \$4.00

JACKS,

#JK-33 PHONE JACK to fit PL-68 plug. Used, 2/\$1.20

#JK-34 PHONE JACK to fit PL-55 plug. Used, 2/\$1.20

MIC ELEMENTS, checked:

#F-1 for TS-9, \$5.00

#M-51 for H-63, M-29, \$5.00;

#M-235 for H-33, \$6.00

#TA-117 for H-60 (TA312), \$6.00;

RECEIVE ELEMENTS, checked:

#1227 (or =) for H-33 receive, \$6 ea;

TS-9 receive element, CALL

#TA-235 for H-60 (TA312), \$6.00

#R-30 receive element for HS-30, \$1.25

SWITCHBOARD CORDS

#G2-SWB-46, grey cloth-covered cord with double 310 plug on each end: 46"L, 2 lbs. \$6.50

#500286-104, red with black cloth covered cord with double 310 plugs on each end; 50"L. \$14.00

#500286-106, as above but 75"L. \$16

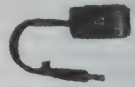
#500286-110, as above but 118"L. \$18

#500286-115, as above but 178"L. \$20

#500286-120, as above but 240"L. \$22

#WE-338A, dirty light brown dual cloth covered cord w/ double 310 plugs on each end; 17"L. \$10

CD-604 CORD with impedance matching transformer 500 ohm to 4000 ohm; 6" cord & PL-54 plug. P/o HS-30 headset. #CD-604-U, Used, \$3.50 #CD-604-UN, Unused, \$6.50 Same as above except 78", #CD-605-U, Used, \$6.00



4 Conductor Brown Cloth Covered Cord for Headsets, etc... 6 feet. #CORD-4C, Unused, \$25

MIC COIL CORD, 1-shielded, 2-wire not; stretches 30"-42". #SH-CC3042, NEW, \$3.00

"Extra-Stretch" Phone Coil Cord 4 ft to 25 ft extension w/ modular jacks; tan. #T425-MOD, New, \$3.50

"Y" CORD

#CD-620F, molded 16"L legs & 6" cord w/ 2 lugs each end. For HS-30 Headset. \$3.50

HEADSET CUSHIONS

#M-301 4" Chamois cushions for HS-23 or HS-33, \$10.00pr

#M-300 Inserts for HS-30, Unused, \$3.50 pr

EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM

Plugs & Jacks

1/4" Connectors

1/4" STEREO PLUG WITH STRAIN RELIEF, NICKEL. Solder connections. Spring cable guide.

#CA022, 2 for \$1.30; 4 for \$2.20

As above except mono, #CA021, 2 for \$1.30; 4 for \$2.20

RIGHT-ANGLE 1/4" STEREO PLUG WITH STRAIN RELIEF, NICKEL. Solder connections.

#CA026, 2 for \$2.00; 4 for \$3.20

As above except mono, #CA025, 2 for \$2.20; 4 for \$3.60

1/4" Mono Jack with strain relief, Silver plated, Spring cable guide, Solder connections.

#CA035, \$1.25; 4 for \$4.40

As above except Stereo. #CA036, \$1.15; 4 for \$4.00

1/4" Mono Panel-Mount Jack, Open Circuit, #CA039, 2 for \$1.20; 4 for \$2.00

As above except Stereo. #CA041, 2 for \$1.60; 4 for \$2.80

1/4" Mono Panel-Mount Jack, Closed Circuit, #CA040, 2 for \$1.20; 4 for \$2.00

As above except Stereo. #CA042, 2 for \$1.20; 4 for \$2.5

1/8" Connectors

1/8" Mono Plug with strain relief, Nickel, Spring cable guide, Solder connections. #CA003, 2 for \$1.20; 4 for \$2.5

As above except Stereo. #CA004, 2 for \$1.50; 4 for \$2.40

1/8" Mono Jack, Nickel, Spring cable guide, Solder connections.

#CA011, 2 for \$1.50; 4 for \$2.40

As above except Stereo. #CA012, 2 for \$1.50; 4 for \$2.40

1/8" Mono Panel-Mount Jack, Mono / Close circuit, Solder connections, With insert switch, #CA015, 3 for \$1.20; 10 for \$2.95

RCA Connectors

NICKEL-PLATED PHONO RCA PLUG. Spring cable guide. Colored identification ring. Solder connections.

Boot color black, #CA063B, 2 for \$1.80; 4 for \$3.20

Boot color red, #CA063R, 2 for \$1.80; 4 for \$3.20

RCA JACK.

Boot color black, #CA064B, 2 for \$2.20; 4 for 4.00

Boot color red, #CA064R, 2 for \$2.20; 4 for 4.00

XLR Connectors



3 Pin XLR Nickel-Plated Long type. Solder connection. New,

3.2" long Jack, #CA096, \$1.89 ea: 2/\$2.99

2.8" long Plug, #CA097, \$1.89 ea: 2/\$2.99

Short Type version of above. New,

2.8" long Jack, #CA092, \$1.89 ea: 2/\$2.99

2.4" long Plug, #CA093, \$1.89 ea: 2/\$2.99

Short type version as above

except 4 pin. New,

Jack, #CA102, \$1.89 ea: 2/\$2.99

Plug, #CA103, \$1.89 ea: 2/\$2.99



3 Pin XLR Panel-Mount Nickel Plated Jack. New, Jack, #CA104, \$1.89 ea: 2/\$2.99

Plug, #CA105, \$1.89 ea: 2/\$2.99

As above except 4 pin. New,

Jack, #CA108, \$1.89 ea: 2/\$2.99

Plug, #CA109, \$1.89 ea: 2/\$2.99

Toilet Seats



Phone jack spring covers for WW2 Navy sets. Also useable on BC-1000, BC-659, BC-620 and others, but not exactly right. The hinge assembly is not the same. Unused, #CMX-23429. \$5.75 each. 10/\$50.00

Other toilet seats available similar to above.

Black wrinkle phone jack cover. #PJ-TS1, Unused, \$3.50 each

Olive Drab phone jack cover. #PJ-TS2, Unused, \$3.00 each

ART-13 Parts

ART-13 CRYSTAL CALIBRATOR, provides 50 KHz fundamental using 200 KHz crystal. Solid LESS 200KHz crystal. Also 1000 Hz tone for MCW. Tubes 2/12SL7, 12SA7; 6x5x3, 4 lbs sh. #XCAL-ART-13, Used, \$35.00

ART-13 PA Plate meter. #PMTR-ART-13, Used, \$25.

ART-13 Antenna Current meter, no transformer, #AMTR-ART-13, Used, \$25.00

Male connector fits DY-17, #U9, \$35.00

Female connector fits ART-13 power, #U7, \$55.00

Female connector for C-87 control box, #U6, \$30.00

Male control connector for ART-13, #U8, \$30.00

Female Connector Dynamotor Power for the ART-13 (substitute for U10). #U10, \$40.00

Knobs for ART-13

Antenna loading 0-100, 200-100 #KN1-ART-13, \$12.

Antenna tuning coarse Triangles marked 1-13 ccw.

#KN2-ART-13, \$8.50

Antenna tuning fine 100-0, #KN3-ART-13, \$12.00

High Frequency tuning Triangles 2 - 18 mhz,

#KN4-ART-13, \$8.50

High Frequency tuning fine 0-99 over 360 degrees.

#KN5-ART-13, \$12.00

Small indexing dial from High Frequency tuning and also used on some of the plug-ins. #D-ART-13, Unused, \$4.75

T-bar locking bar for ART-13 tuning knobs.

#T-ART-13, \$4.75

PAX Series Card

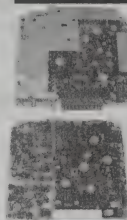
The DeviceNet Option Card (PAXCDC30) is designed for the PAX series of meters. It fits into the Comms slot of any

PAX meter and allows the meter to communicate with a DeviceNet bus. The card supports Polling, Bit Strobe, and Explicit Message Commands. The MAC ID and the Baud Rate are switch adjustable via a DIP switch. A bicolor LED is used to indicate the meter's status in relationship to the bus. Made by Red Lion. #PAXCDC30, Unused, \$44.95

455 KHz BFO

PERMEABILITY-TUNED 455 KHz BFO COIL from R-392 receiver. Originally used with 5-55 pf variable capacitor but fixed cap may be substituted. Oscillation without parallel capacitor: 452-480 KHz. Good basis for BFO for any receiver with 450-465 KHz IF; w/ schematic. 3.3" Lx 1.5" dia, 1 lb. #BFO-T602/R392, USED, \$17.95

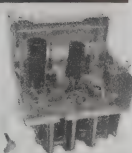
ARC-187 Cards



ARC-187 Receiver RF/Modulator circuit cards removed from ARC187 for some TC10. These two circuit boards were the heart of the transceiver. No schematics or hookup info. Mostly descrete components with some surface mount. More pictures at www.fairradio.com/arc187.htm Each board is 4.5x4.2x0.8, 2 lbs sh. #CB-ARC-187, Used good condition, \$25, both circuit cards.

RF Amp. / Preselector

Harris RF301/GRC-165 2-15 Mhz RF Amplifier/Preselector section contains V1 6DC6, V2 12BY7 which provide tuned grid/tuned plate amplification for the RF receive amplifier and the transmit driver. Band switch does not have detents, 14 1 mhz bands. 1/ERC 6025 and 1/ERC 5020. Power required 200 VDC, -35 Vdc and 6.3 vac. An excellent basis for QRP set or experimentation. 6.3x6.5x6.7, 5 lbs sh. With schematic and info. #RFA-165, \$24.95; 2 for \$45



5 MHz Standard

FREQUENCY STANDARD MODULE from R-1051* and RT-618* radios; usable as replacement or adapt to other need where standard is required. Crystal oven with 5 Mhz crystal provides 5 Mhz sinewave output (approx 1.8V) plus possible non-sine outputs dual 500 KHz, 1 & 10 Mhz. Designed stability: 1 part in 10 / day. Requires 18-24 VDC input. 4.4x3x4.5, 2 lbs. used crystal only is checked, other outputs may need repair, #6625-078-4718, \$29.95 w/ schematic

RF Exciter

RF EXCITER MODULE from 1980's HF transceiver; mixes 500 KHz USB signal with synthesized frequency to produce and amplify modulated RF. Synthesizer (not available) supplied 74.5/75.5 (LSB/USB) and 77-105 Mhz depending on desired output frequency; RF output is low level. Requires +5, +12, -12, +28 VDC; with pinout. 1x7.8 x3.3, 2 lbs. #RF-EXC-1512, unused, no info, \$25.

RF-550 Modules

Harris RF-550 HF receiver & RF-131 exciter modules; 4.1x2.1 x5.9, 2 lbs sh. USED, not tested: #A2A8/RF550 High Band Phase Lock Loop. \$38.00

#A2A14/RF550 Low Band Phase Lock Loop, \$37.95

SCHEMATIC packets, #SCH-(specify #), \$8.50 ea w/module purchase.

Infrared Device

INFRARED RECEIVER/DEMODULATOR as used in televisions and VCRs for remote control; has infrared detector and an IC for signal processing. Requires 5 VDC; 0.7x0.6x0.6, 1 lb sh. #IFRD-TV, Unused, \$2.50 each; 6 for \$10.00



PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

Velleman Electronic Kits

Kits require insertion and soldering of components! Pictures are shown after assembly.

UNIVERSAL MONO PRE-AMPLIFIER. This kit has been developed as pre-amp for a number of audio applications where there is insufficient input signal. Applications as a microphone pre-amplifier or for level correction. Power supply: 10-30VDC / 10mA. Output impedance: 1Kohm. Adjustable output level: max. 40dB. Frequency range: 20Hz to 20KHz $\pm$ 3dB. Max. input signal: 40mV. PCB dimensions: 1.2" x 1.7". #K1803, \$13.00

UNIVERSAL STEREO PRE-AMPLIFIER. Frequency range 40Hz - 30KHz (-3dB). Maximum input voltage 50mVrms. Adjustable gain 40dB max. Output impedance 1Kohm. Requires 10-30V DC / 5mA. PCB dimensions 1.7" x 2.6". #K2572, \$19.30
Recommended Power Supply Kit, #K1823, \$15.95

AM/FM ANTENNA AMPLIFIER. This amplifier provides 22dB gain wherever you need it. DC power supply directly or via the coax cable. Metal housing included. Gain: 22dB. Power supply: 12V to 15V / 3mA. Input and output impedance: 50 - 75ohm. Frequency range: 10MHz to 150MHz. Note: It is important to put the amplifier as close as possible to the antenna. 3.4" x 1.4" x 0.9". #K2622, \$24.98

7W MONO AUDIO AMPLIFIER. This small amplifier is constructed around the TDA2003 IC, capable of delivering 4Wrms at 4ohms. The IC is completely thermally and short-circuit protected. A conventional direct current can be connected as supply. Music power output: 7W / 4ohm. RMS output: 3.5W / 4ohm or 2W / 8ohm. Total harmonic distortion: 0.05% (1W / 1KHz). Frequency response: 20Hz to 20KHz (-3dB). Signal/noise ratio: 86dB (A weighted). Input sensitivity: 40mV / 150Kohm. Overload and short-circuit protected. Supply voltage: 15VDC (8 to 18VDC possible) / 0.5A. 2.2" x 1.4". #K4001, \$15.98

2 X 30W AUDIO POWER AMPLIFIER. This small amplifier is constructed with the TDA1521 IC, with a maximum supply capability of 2 x 15Wrms (4ohm) of 2 x 10Wrms (8ohm). The IC is thermally and short-circuit protected. Additional rectifier and smoothing filter are unnecessary, as alternating current can be directly connected to the unit. See our website for further specifications. 2.8" x 2.0". #K4003, \$34.98

TELEPHONE AMPLIFIER. This telephone amplifier may be used as a free-standing amplifier with speaker, e.g. to listen to a telephone conversation, or the output may be connected to an amplifier or mixing panel (e.g. radio stations). Input - isolation transformer interface. Speaker output 0.5W / 8ohm. Line output 0dB (0.775Vrms). Requires 7 - 9V AC or 9 - 12V DC / 150mA. PCB dimensions: 2.5" x 2.1". #K4900, \$17.98
Recommended housing, #G416, \$10.60

SIGNAL TRACER/INJECTOR. This signal tracer/injector has been designed to inject or detect a specific signal into an audio circuit in need of repair (such as amplifiers, radios, tone controls, ...) so as to detect the fault. In this way problems can be traced more easily. The signal tracer may also be used as a simple monitor or amplifier. Independent injector/tracer. Injector - 0.25Vrms output (adjustable), output impedance: 1.5Kohm, frequency: $\pm$ 1KHz. Tracer - 3.5mV to 10Vrms sensitivity (adjustable), gain: 40dB, input impedance: 50Kohm. Output power: 0.5W / 8ohm. Power supply: 7-9VAC or 9-12VDC / 150mA. PCB dimensions: 2.4" x 2.1". #K7000, \$29.95

VOLTAGE DETECTOR this device locates house wiring within walls and traces wire to find a break. A flashing LED indicates when voltage is present. The flashing speed indicates how close the wire is, approx 3.9 inches maximum. For audio indication you can add buzzer SV4/12-S. 9V battery (not included). 2.2" x 2.5". #K7101, \$12.80
Recommended housing, #G407, \$6.40

DC TO PULSE WIDTH MODULATOR for control for DC motors, lighting, small heaters. Pulse width modulation (PWM) produces a series of pulses whose duration is proportional to a DC voltage. This allows for very efficient control of DC motors and other DC operated devices. Overload and short circuit protected. Input voltage 8 - 35 VDC output current 6.5A. Dimensions: 3.4"x1.9"x1.8". #K8004, \$26.98

MULTIFUNCTION RELAY SWITCH. 15 functions including timers, switching, flashing, interval, random switching, ... Two pre-programmed delays. Learning mode for delays of 2s up to 12 days. Pushbutton control. EEPROM for delay time storage in case of power failure. On-board transient filter for the relay contacts. Suitable for control of incandescent lighting, halogen lighting, fluorescent lighting, fans, valves, buzzers, ... Requires 9-12VAC or 12VDC. Max. load: 2.5A (275W / 110V). 3.4"x1.5"x1.0". #K8015, \$28.98
Recommended housing, #G410, \$7.00

10-CHANNEL, 2-WIRE REMOTE CONTROL. Control 10 devices using only 2 wires up to 55 yards apart. Microprocessor controlled. Inputs can be push-buttons, switches or open collector outputs. The receiver section provides 10 open collector outputs that control relays directly. Terminal block connectors for all input and output connections. All outputs are provided with LED indication. Can be used with: K6711, K8000RS, K8006, or relay cards: K6714, K6714-16. 10 open collector outputs: 50V / 100mA. Requires single 12-15V AC or DC, 300mA. Dimensions: control pcb: 2.7" x 2.0" x 0.6"; receiver pcb: 4"x2"x1". #K8023, \$42.98

3 WATT MONO AMPLIFIER. Small but powerful amplifier suits a wide range of applications such as: microphone amp, for doorbells, intercom, sound effects, earphones, radio receivers, PC sound card, musical instrument, etc. 3 Watt RMS. Freq range: 50Hz - 20KHz. Gain: 32DB (40X). Short circuit & thermal protection. Requires 6 - 15VDC. Current consumption 500ma max. 1.6"x1.9". #K8066, \$16.80

SIGNAL GENERATOR. Signal output: sine wave, triangle, square wave and integrator (selectable through jumper). Signal frequency: about 1KHz (fixed). Output level: adjustable from 0 to 100mVrms (LEVEL potentiometer). Requires 9V battery (not incl.). 2.2"x1.6". #MK105, New, \$6.80

WATER ALARM. Gives alarm sound when water is detected. Incorporated alarm buzzer. Water sensor can be placed at a distance by cutting the board and using wires to connect the sensor. Requires 9V battery (not incl.). 1.8"x2.8". #MK108, \$5.50

INTERVAL TIMER. For intermittent operation of circuits and equipment. Blinking light, video/photo single frame shooting, slide projector control, miniature models. 3A/24V output relay with dry switch-over contact. Pulse time adjustable: between 0.5 and 5 sec. Pause time adjustable: between 2.5 and 60 sec. Power supply: 12Vdc / 100mA. 1.6"x3.4". #MK111, \$6.00

IR LIGHT BARRIER. Applications: announce visitors, warn against burglars, set boundaries, for science projects, ... Audible (85dB) and visible (LED) alert. Range 3ft to 13ft. On/off switch provided. Requires - Transmitter: 9V DC / 50mA max; Receiver: 9V DC / 20mA max. 9V battery holder and adapter jack included. Transmitter: 2.2" x 1.6". Receiver: 3.9" x 2.0". Not for outdoor use. #MK120, \$9.60

RUNNING MICROBUG. Attractive bright colored bug-shaped miniature robot. The microbug is always hungry for light, it drives towards it! Two open chassis sub-miniature motors. Adjustable light-sensitivity suits almost any light condition and allows to control it's 'bug-like' behavior. LED 'eyes' indicate driving direction. Stops in total darkness. Requires 2 x 1.5V AAA batteries (not incl.). 4.0" x 2.4". #MK127, \$12.20

QUIZ TABLE. Up to four players can compete. LED indicates first button pushed. Quizmaster 'RESET' - button with 'button pushed'-indication. Two units can be daisy-chained for eight-player-fun! With on-off switch. Requires 9V battery (not included). 4.3" x 3.1" x 1.1". #MK133, \$12.20

CLAP ON/OFF SWITCH. Operate your lighting with a simple hand-clap. Ideal for disabled or elderly people. Good immunity against surrounding noises. '1-clap' or '2-clap'-mode selection. '2-clap'-mode features built-in safety turn-off timer (5h approx.). Output relay 'pulse' or 'toggle' selection. Microprocessor controlled. Output relay with LED-indicator. Requires 12V DC / 150mA. With DC adapter socket. 3.1" x 2.9" x 0.9". #MK139, New, \$20.80

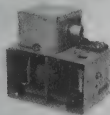
DUAL SUPER BRIGHT FLASHING RED LIGHTS. Two super bright red LEDs. Powerful flash effect for emergencies, warning signs, as eye-catcher, 'alarm-active' - simulation, etc. 'Auto turn-on at dark' - mode with adjustable sensitivity. On/off switch. Requires 9V battery (not included) (12V possible). 2.2"x1.3"x1.6". #MK148, \$9.20

MANY MORE KITS AVAILABLE AT faiirradio.com/kits.htm

ARC-5 Parts

SCR-274/ARC-5 COMMAND SET replacement parts:
#7277 6-9.1 MC 1st IF, \$6.50
#7279 " " 3rd IF, \$6.50
#5856 " " oscillator \$6.50
#7249 5.3-7 MC BC-458/T-21 xmitter PA coll, used, \$7.50

Discriminator



PHASE & LOAD DISCRIMINATOR determines if load is <, >, or = to 52 ohms; also if R, C, or L. 3rd output relative to antenna current; with schematic. 2x3 x3, 2 lbs. #T201/180L, \$11.00

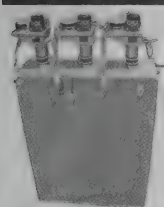
Cavities

Western Electric 1012A 475 - 525 Mhz cavity. Two type N connectors. 11.5x6.2x6.1, 10 lbs sh. #CAV1012A, Used good condition, \$49.50



220 Mhz Celwave cavity tunes approximately from 190 - 240 mhz. Type N connector. 21" long x 6.1" diameter. 9 lbs sh. #CPX220-12, Used good condition, \$99.00

135 MHz Tunable Cavity



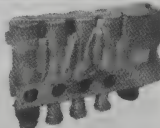
118 - 135 Mhz Tunable Cavity. This is a large three section cavity for use in the range 118 to 135 Mhz. No specifications available. Those of you who know about cavities could probably modify it for other frequency ranges. This unit has stepper motor and

encoder on each section. Bodine Hysync DC Stepping Motor 23X1BEHD Caltech Corp Bit encoder 8 bit Absolute 33X121. No info on circuit to use these motors, but you can manually tune the cavities or design your own control circuits. 8.3x26.5x42.9, 70 lbs sh.

#TC-135, Used excellent condition, \$110.00

900-1100 MHz Cavity

TRANSMITTER TRIPLER / PRESELECTION CAVITY MODULE from TACAN system in 900-1100 MHz range. Consists of preselector and four silver-plated cavities originally gain-tuned using ball-chain drive (not available) 10x7.5x2, 7 lbs sh. #4-CAV-93, used, \$57.00



Triplexer



TRIPLEXER from cellular application by Fuji Electrochemical Co. #EF-T02, Frequencies are as follows - Transmit: 835MHz, Receive: 880MHz, Lo: 784.36MHz. Has female push-on SMA connections for Transmit, Receive, and Lo and a female TNC connection for Antenna. Cast aluminum housing with a removable cover. o/a 4.3x1.5x0.8, 2 lbs sh. Appears to be unused, #EF-T02, \$5.00

appears to be unused, #EF-T02, \$5.00

850-895 MHz Modules

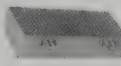
Modules from digital air to ground phone system. Receive frequency was approx 850 MHz and transmit 895 MHz. Removed from equipment-Excellent:



DITCOM MICROWAVE DF-2575 CIRCULATOR for 850-895 Mhz; 200 watts CW max, 3 KW peak. Isolation 20 DB min; insertion loss 0.3 db max. VSWR 1.25:1. Two SMA, one N conn; 1.4x1.7x1.3, 1 lb. #DF-2575, \$18.00

FERROCOM 9K15-S CIRCULATOR, 840-900 MHz; T-shape SMA-N-SMA conn. No further info; 1.9x1.9x1. #9K15-S, \$18.00

MILCOM 2-WAY COMBINER for 800 MHz, 2-SMA female & 1-male connections; 1.8x2.8x2, 2 lbs. #240-089, \$23.00



800-900 MHz Modules

MODULES & COMPONENTS from airline phone system operating in the 800 to 900 MHz range:



#IFPC COMMON module has two receiver input and two transmitter output sections. Has parts two each of Motorola filter 0850E05140 and 0895E05141, M/A-COM 7N526-6016 circulator in one section. Also 47.5 MHz local oscillator, 5 MHz piezo osc and IC's N80C169KB 16 MHz CPU, 27C256-20 32Kx8 EPROM, 3/84256-10L 256Kx4 RAM & related IC's. Requires +28, +12, -12 V; 11x6.5x3.2, 7 lbs sh. #IFPC, \$20.00

#IFPC-T/R MODULE, stripline receiver RF/IF and low power xmitter boards plus oscillator/AGC board each in separate cavities. Components S80C652-1 MPU, 2/84256A-10 RAM, 27C256JL EPROM, two Sony 20102A D/A CONV, etc. Requires +12, -12 +5 VDC; 11x6.5x1.5, 5 lb. #IFPC-T/R, \$15.00

#AFF-PS MODULE, powered both above modules; has switching supplies Calx #24S12 (24 VDC in to 12 VDC 1.7 A out) and #12S5 (12 VDC in to 5 V 400 MA out), two RO Assoc 220-400 VDC input uVERTERS with one 28 VDC 10 A out and other 12 VDC 10 A out; and Vicor DC-DC Converter 250 VDC 35 W in to 5 VDC 25 W out. Also flat heatsinks, capacitors, etc. 11x6.5x3.3, 7 lb. #AFF-PS, \$12.00

8-12 GHz Oscillator Assy

8-12 Ghz Oscillator assembly from some Gigatronics device. Federal Stock Number is 6825-01-191-1980. The assembly consists of an Avanteck YO85-2218 8 - 12.4 Ghz oscillator and a Virtech VX-8012 Circulator or Filter??? 4 lbs sh. #101CA15400, Unused, \$100.



Wavemeters

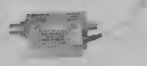


p/o AM-1956/ GRC-50 Rx/Tx 1350.5-1849.5 MHz FM oscillators; cal book for tuning CHN #, MAIN TUNE, OUT FREQ, & REC OSC. BNC connections; 3x3x9, 5 lbs sh. #WAVE-1956, Used, \$20.95

1700-2600 MHz WAVEMETER, 20-turn vernier tunes in increments of 1. BNC connections; 1N21 diode output. On 3.5"W bracket; o/a 4.8"Hx2", 2 lbs sh. #SMD-302123, used, \$29.95

Bird Power Monitor

BIRD 4162D RF POWER MONITOR, rated 220-405 MHz 40 W. Measures incident and reflected power; VSWR 1.1:1 max. Usable over 145-500 MHz. Output 100 uA @ 5K ohm. RF connectors; output C, input BNC. DB-9 for DC outputs. 1.8x4x1, 1 lb sh. #4162D, NEW, \$22.95



SWR Indicator Circuit



STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1.8" square 0-10 scale (FS=2 ma) meter

with filters, rectifiers & modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. Circuit is balanced when antenna is tuned to 52 ohms resistive resulting in "0" reading on meter. Bridge: 2.5x 2.3x1, 2 lbs sh. #M701/CU-991, Used, w/info, \$19.95

SWR / Discriminator pull out from AM-3349/GRC-106 Amplifier which covers 2-30 MHz at 200 Watt AM and 400 Watt PEP. Has two R/A mini BNC connections and a 15 pin DB connector with 15 pin mating connector. 3.2x2.6x2.2, 2 lb. w/ schematic. #SWR-3349, \$12.00

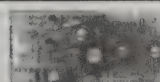


SWR BOARD for HyGain radio; no further info. #PTSR006AOX, \$1.50

QRP Circuit Boards

SHORT-WAVE CW EXCITER/ TRANSMITTER by Ryan Communications; tiny 2"x4" high quality circuit boards

cover active segments of ham radio low band frequencies @ 1.25 W CCS from 12 VDC power input into 50 ohms resistive. Output increases from 0.75 W-2.5 W as input varied from 10-16 VDC. RF Harmonics > 30 DB. Has 2N3019 power amp transistor and double PI-net. Provision for HC-6 -33 xtal; norm-open contact-closure required for output.



#SW-2, 1.8-2.0 MHz, \$37; #SW-4, 3.5-4 MHz, \$30; #SW-10, 10-10.6MHz, \$25; #SW-14, 14-14.7MHz, \$25 #SW-21, 21-21.9MHz, \$33

Noise Activated Switch



NOISE-ACTIVATED SWITCH with sensitivity adjust and mic; 6 VDC input, 2"x2". #54-91, \$1.75 ea; 7 for \$10.00

S-Line Mechanical Filter

Circuit Board with #526-9310-009 mechanical filter model F455Q3. This "Y" style filter will fit S-Line equipment. 100K ohm in/out impedance. 3.5dB BW is 18kc, 70dB bw is 70kc. IF frequency of the filter is 455KHz. The circuit board also has two 5636 sub-mini tubes and various resistors and capacitors. No further info on circuit board. 3.9x3.5x0.8, 2 lbs sh. #CB-MECH, Used, \$15.00 each



Cubic R3030 IF Section



FIRST IF SECTION CUBIC FRONT END CONVERTER AMPLIFIER FROM CUBIC R3030 HF RECEIVER.

This module was the first gain and first conversion module in this premium receiver. First conversion used LO 40.455 - 70.455 Mhz, and second conversion used fixed LO of 40.455 Mhz to produce the IF output of 455 KHz. These oscillator signals came from another module which is not available. This module has the factory seals on it and is in excellent condition. 4.2x8.1x1, 3 lbs sh. #2140-1102, \$80.00

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

VHF Doubler Module

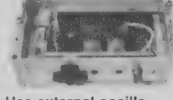


1.5 overall 2 lbs sh.

A9 5820-00-411-1472 VHF DOUBLER BUFFER MODULE 116 - 150 MHZ. Circuit consists of doubler, buffer and level/gain control, transistors are 2N4072 doubler, 2N5109 buffer, 2N2222 gain control amp. Power required +20 VDC. W/schematic. 6.75 x 3.75 x 5. #Doub21-1472, \$12.95

TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER,

56 to 99 MHz with 75 °C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) crystal (not supplied). Has external oscillator input plus tuning meter & oven output. Requires 12-18 VDC regulated for oscillator; 22-39 VDC 1 amp for heater. W/BNC and SMA RF connections; DEC-9P plug for power. Part of GRT-21/22 xmitters. 6.5x2x3.3, 3 lbs sh. #OSC-8004290G1, used with Schematic, \$9.95



Collins Modules

Speech Processing Modulator for the SSB ARC-38A transceiver with two each F250Z4 Collins mechanical filters 926-9130-921. Center freq 251.8kHz. Contains microphone amplifier and speech clipper circuits, balanced modulator for USB operation. With tubes 5896, 6021, 2/5840, & 6112. 3 lbs sh. #SPM-ARC38, Used, \$40.00

1 Mhz James Knights Modulator Crystal Oscillator plug in module. Output drives locked divider tubes to produce 500kHz, 250kHz, 100kHz. Crystal oscillator module requires 28 VDC. 250 VDC and filament voltages also required for divider circuits. With tubes 5/6021, & 5636. With schematic. 3 lbs sh. #MCO-ARC38, Used, \$25.00

Collins 250 Khz IF assembly from ARC-38 transceiver. Has mechanical filters. F250A65 and F250Z4. Two 250Khz IF transformers. Tubes 5814, 3/5749, 5726. 3 lbs sh. #IF-ARC38, Used, \$35.00



250Khz Crystal Oscillator w/oven. 2/5749 tubes. #CO-250, Used, \$10.95

500Khz Crystal oscillator w/oven. With tubes 5654 & 5814. #CO-500, Used, 17.95

618S 250Khz IF Amplifier F250A67 250 khz mechanical filter 2/5726, 3/5749. 3 lbs sh. #IFA-618S, Used, \$19.00



BC-746 Tuning Units



BC-746 Tuning Units for the POGO STICK Radio BC-745 / SCR-511 radio. We have the following:

Channel 2, 3825kc no crystal #746-2-NC, \$12
Channel 4, 4845kc unused w/ crystal #746-4-WC, \$23
Channel 9, 3655kc used w/ crystal #746-9-WC, \$18
Channel 11, 4780kc no crystal #746-11-NC, \$12
Channel 12, 5030kc no crystal #746-12-NC, \$12
Channel 13, 5700kc no crystal #746-13-NC, \$12

BC-347 Interphone Amp.

BC-347 Interphone Amplifier, Part of RC-34, RC-35 or RC-36. Power required 14 VDC & 150-250 VDC. 5.8x3.9x2.4, 4 lbs sh. #BC-347, Used, \$16.95

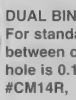


Hardware

HARDWARE ASSORTMENT of washers, screws, nuts, rivets, terminals; 2 lbs sh. #HWA-2, \$2.50



Dual Banana Plug - Red. For standard banana jacks. #CM13R, \$1.40 ea; 4 for \$4.80
Dual Banana Plug - Black. #CM13B, \$1.40 ea; 4 for \$4.80



DUAL BINDING POST RED/BLACK. For standard banana plugs. Distance between connectors is 0.79". Drill hole is 0.15" (x2). 1.5" x 1.3". #CM14R, New, \$1.59; 3 for \$4.32

As above but gold plated contacts. #CM15R, \$2.19; 2 for \$3.99



BINDING POST for Banana plug. Length is 1.7". Drill hole is 0.3". Black color, New.

#CM3B, 2 for \$1.50; 4 for \$2.60
As above but Red, #CM3R, 2 for \$1.50; 4 for \$2.60



BANANA PLUG. Solder connections. Length is 1.7". New. Black color, #CM9B, 5 for \$2.25; 10 for \$4.00
Red color, #CM9R, 5 for \$2.25; 10 for \$4.00
As above but gold plated. Black color, #CM10B, 2 for \$1.40; 4 for \$2.40
Red color, #CM10R, 2 for \$1.40; 4 for \$2.40

HEX SPACERS

male-female thread or female-female (f-f) : #HEX-(thread)-(length)

Length	per 20	per 100
4-40 threads 1/4" dia metal		
1.375	\$6.50	\$19.50
6-32 threads 1/4" dia metal		
0.375	\$3.50	\$12.00
0.625	\$4.25	\$14.00
0.75	\$4.50	\$14.50
1.5 (f-f)	\$5.00	\$16.50

1/4"-28 threads 7/8" dia: 2.87 4/\$4.25 20/\$16

TERMINAL STRIP with 28 silver-plated 0.8"Hx0.4" dia spring push-down binding posts on 15.3x3.9 x0.4" thick black phenolic board. Phenolic may have minor chips; 4 lbs sh. #TM-184-PT, Used, \$23

Older version of above with 0.6" dia white-brass screw-down terminals, #TM-184-ST, used, \$26.00

AUGAT single 8-terminal PC mount: 2"Lx0.6"W: #4PCV-08, 10/\$8.50

VARIABLE TERMINAL STRIPS, pairs removable to decrease or increase length. #GE-V12-TERM, 12 terminal pair 1.3Hx8.3Lx2"W, \$3.50
#BUC-V8-TERM, 8 terminal pairs 0.4"Hx3.5"Lx0.8"W, \$3



Wire Terminal Assembly by Reliable Electric #5591, Unused, \$3.00

SHOCK MOUNTS you bolt to equipment.



STYLES:	A	B	C
#SM-4A, 4 #,	\$1.20	#SM-6B, 6#,	\$1.20
-9A, 9#,	\$1.50	-12A, 12#,	\$1.75
-12B, 12#	\$2.00	-15B, 15#,	\$2.25
		-50C, 50#	\$3.50

Control Boxes



C-375 Control box for radio sets GRC-3-8 or VRC-8-10. Unit is a remote junction point and switching unit for the control and audio lines to two sets. 3.2 x 6.8 x 7, 6lb, #C-375, Unused, \$26.00

C-2742 VRC Remote Control Box works with the RT-246. 3.3x6x4, 4 lbs. #C-2742, Used, \$30.00



C-434 Local Control for GRA-6 system. Allows remote control of radio by field phone and wire. #C-434-U, Used, \$33.00
As above except. #C-434-GR, Gov't Recon. \$49.95

C-435 Control box, Used to duplex two GRC-3-8 LOCAL CONTROL p/o GRA-6, #C-435, Used, \$22.00

BC-616/ARC-5 Relay Junction Box for ARC-5 Radio System. #BC-616, Unused, \$20.00



C-87/ART-13 Control Box for ART-13 transmitter. Has 11-position CHANNEL selector, OFF-VOICE-CW-MCW select, PTT button and IC jack. 3.5x6.3 x3.3, 3 lbs. #C-87, UNUSED, \$35.00

SB-327/ARC CHANNEL SELECTOR 24-51.9 MHz FM in 100 KHz steps on 3-digit counter; used with RT-294/ARC-44 Tx-Rx. 3x5.8 x4.5, 3 lbs sh. #SB-327, used, \$35.00



SWITCH BOX, #SA-474, \$12.00

BC-631 Remote Control Box for the SCR-522 radio set. #BC-631, Unused, \$12.00



BC-1366 JACK BOX, switch "Comp-Laison-Command-Inter-Call", Increase Output pot, 2 phone jacks. 3.3x4.8x3, 2 lb, #BC-1366, Used, \$22.00



RM-52 REMOTE CONTROL for radio and intercom set. Has transformer, mic & phone jacks. Source for "Macy's Phone Patch" project. Less terminals. 7.3x3.5x5, 5 lbs. #RM-52, Used, \$5.00

C-11291 Control for Sincgars Radio PRC-119. 4.6x5.9x4, 5 lbs sh. #C-11291, Used, \$58.00



GRA-39 Control

C-2329 Local Control from the GRA-39 control group. Has a mic amplifier gain of 55 db and a microphone pre-amplifier output of 5 mw. 8.8x8.9x4, 12 lbs sh. #C-2329, Used, \$69.50



C-2328/GRA-39 Control Front Panel with electronic components only. #FP-C-2328, Unused, \$99.00

#H-250-U Handset Used with broken clip, \$39.50

GRA-39 Manual Repro, #MM-GRA-39, \$18.00

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

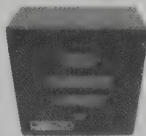
Military Speakers / Amps



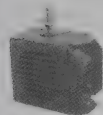
LS-166/U Permanent Magnet Speaker, used with the older style military radio sets. 3 Watts in to 8 Ohms, and coupled through a sealed, 8 Ohms to 600 Ohms impedance transformer. Frequency response 300Hz to 7Khz. Field or vehicular use modes switch. Cord terminated with a U-77 connector. 7 lbs sh. #LS-166, Government Reconditioned. \$60.

LS-3 Permanent Magnet Loudspeaker. Made by Best. Used with BC-189, BC-312, BC-314, BC-342, BC-652. It can also be used with the BC-224 and BC-348. Mounted on the speaker is an 8000 ohm to voice coil matching transformer. Has a JK-33 input jack which mates with PL-68 plug. 6" diameter speaker mounted in a 8" x 8" x 4.8" housing. Most have 1952 contract date. May have very slight rust. NOS, Smooth satin black finish. 14 lbs., #LS3-SMOOTH. \$49.50

LS-3 Best Mfg, WW2 194X contract date, as above with black crinkle finish. May have very slight rust, NOS. 14 lbs sh., #LS3-CRINKLE. \$59.50



4" Speaker, ruggedized 8 ohm 2w perm. magnet type; 300-7khz resp. p/o of LS-166; 3 lbs. #LS-445, Used \$10.00



AM-6747/V Amplified Speaker for monitoring audio of R-442, RT-246/ 524 radios from remote location. Connection for H-189 or H-250 handset to allow remote keying of transmitter. Requires 28 VDC; can be modified for 12 VDC. Similar to

AM4979; 5.6x5x3 + 2" top bolt; 6 lbs. #AM-6747, Unused, \$52.00

AM-4979/GRC, similar to AM-6747 but has 6 ft cord with U-229 plug. #AM-4979, Used need work, \$18.00

Various Books

The Boys Book of Engine Building, How to make steam, hot air, and gas engines and how they work, told in simple language and by clear pictures. Easy to read text that will show you the fundamentals. Chapters include: the first engines, two simple steam turbine engines, a simple piston steam engine, a 1/24 hp horizontal steam engine, making small boilers, fittings for model engines, a model Atlantic type locomotive, steam - the giant power, a hot air or calorific engine, a 1/8 hp gas engine, and more. You're told how to make the patterns for the castings. 1918 book. 261 pages. #23489, \$12.95



Windmills & Windmotors, different types of turn-of-the-century windmills. Build a model tower windmill like those in Holland, a power-producing windmill with 3' diameter sails, a 6' diameter windmill capable of driving a 30 watt dynamo, a 10' diameter windmotor. Drawings show how the all-wood machine is built, and how metal gearing brings the power down to ground level. 88 pages. #4279, \$6.95

Various Books

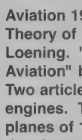


The Boy Electrician, 1940 edition. Covers: magnets; static electricity and machines; voltaic cells and batteries; electromagnetism and magnetic inductions; electrical measuring instruments; bells, burglar alarms; telegraphy; microphones and telephones; inductions coils; transformers; radio receiving sets; an experimental "wireless" telephone; electric motors; dynamos and more. Practical how-to plans and advice to build and have fun with all kinds of electrical equipment. Many illustrations. 403 pages, #21648, \$19.95

Dynamos & Electric Motors, How to Make Them and Run Them. Chapters include: the Siemens dynamo, the Gramme dynamo, the Manchester dynamo, the Simplex dynamo, calculating the size and amount of wire for small dynamos, ailments of small dynamo-electric machines, small electric motors without castings, how to determine the direction of rotation of a motor, how to make a shuttle-armature motor, fifty-watt under-type dynamo, and a four-hundred-and-forty-watt Manchester type dynamo. Some of the motors and dynamos are small table-top machines which would make great experimental projects. Lots of illustrations. 160 pages. #22539, \$9.95



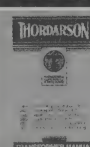
Dangerous Electricity! Collection of articles on high voltage and high power machines from Mechanics & Electricity Magazine and Modern Electrics Magazine before 1914. A Tesla coil you could build 18" high and 5" in diameter. Construction of a Tesla coil with a secondary wound on a glass jar. How to build a high-frequency resonator, an X-ray set. Insulating wire, building a spark gap, a motor-driven mercury interrupter. Articles on high frequency electricity, a carbon-arc furnace, a coil winding jig for secondaries, and a water rheostat. 64 pages. #23411, \$6.95



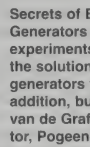
Aviation 1910, "The Practice and Theory of Aviation" by Grover Loening. "Recent Progress in Aviation" by Octave Chanute. Two articles about early plane engines. Technical details of air-planes of 1910; simple scale drawings of the Farman, Doy, Wright; info on control surfaces, landing gear, engine horsepower, controls, the frame. See the Wright brothers, Santos-Dumont, DeLagrange and others in flight. Listing of significant flights made by all pilots from the Wright brothers in 1903 to Hubert Latham's flight at Mourmelon, France in 1910. Details on 2 new Wolsley engines built for airplanes and an engine competition held in October 1909 and how unreliable the entrants were, you'll know the early fliers risked their lives every time up. 64 pages. #23470, \$8.95



Electrical Things Boys Like to Make, Fifty years ago boys made these projects: from a door-bell and night light to a corn popper, crystal set, and toy motors. Get thirty three projects illustrated with detailed drawings and photographs. Basic construction techniques such as coil winding, soldering, building a punch jig and the use of hand tools, more. Build a crystal set or motors, help a child to build an interesting project and stimulate their interest in technology. 205 pages. #23241, \$9.95



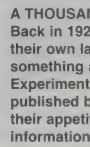
THORDARSON TRANSFORMER MANUAL, Great for transformer reference, tube amp schematics and tube radio repair secrets. Full of info on schematics, parts lists, performance specs, etc on big push-pull audio amplifiers, modulators, microphone preamps, power supplies and almost any type of electronic gear that used transformers and chokes. 144 pp; #BK-THOR, \$11.95



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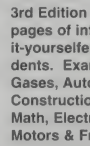
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U.S. Armor and Communications, Reprint of info on various radio equipment and accessories used by the U.S. military during the 1970's. Used at Army Armor school Ft. Knox. 200+ pages. Tape bound. #BK-ARM, \$17.50

BUILD A UNIVERSAL COIL WINDING MACHINE. Shows how to build a coil winder like those available in electronics catalogs years ago from common, easily-obtained materials. This amazing machine will professionally wind universal and honeycomb coils, single layer and multilayer solenoids, close-wound and space wound coils, and even piped coils such as used for RF chokes and transformers. Loaded with illustrations, dimensions, and step-by-step text. 24 pp #BK-WIND, \$8.95



Experimental Crystal Set Receivers Book, Issues of Modern Electrics from 1911 and 1912 provided

the Experimental Department where letters from experimenters were reprinted. Here you get the best of those letters. Illustrations of a wide variety of make-shift equipment that was being fabricated by impoverished experimenters. This isn't so much about crystal set circuits as it is about building the components needed. You get ideas on building coherers, variable and adjustable condensers, sliders for tuning coils, making a universal detector, galena detectors, and much more. 48 pages, #23276, New, \$6.95

How to Build the Twinplex Regenerative Receiver, Shows 3 different receiver projects. Build your own regenerative receiver using twin triodes or even a 3 transistor circuit. Sensitive and stable. Use old tube bases for coil forms. Build as a old time replica or with fet's and transistors. Schematics and chassis instructions. 63 pgs, #BK-TWIN, \$7.95



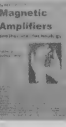
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Mag Amp Books

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TESLA



"Tesla: The Lost Inventions", Here are the suppressed inventions of Nikola Tesla. His later inventions, have never been utilized as Tesla intended despite their potential

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Discover the magic of oil immersion, of close coupling, and of precise pulsing. Learn how to drive a Tesla coil from low-voltage battery power. Build a solid-state pulse generator and a Tesla lighting plant. Can battery-powered Tesla technology aid us in the next big blackout? Will Tesla be the next big step forward in home power? 40 illustrations. #BK-TSON, List price, \$7.75; Our price, \$6.95

"Radio Tesla", The Secret of Tesla's Radio and Wireless Power. This booklet details the radical radio technology of Nikola Tesla. Early elemental wireless devices like Tesla's and many others shown in this booklet are worthy of study because they remind us that powerful radio technologies can be so simple and accessible. Modern radio took a lot from Tesla, but what did it ignore? Also in these pages: grounding rediscovered, the suppression of amateur radio, radio-free energy and much more. 66 illustrations. #BK-TRADIO, List price, \$12.75; Our price, \$11.50

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"Tesla: The True Wireless", In Nikola Tesla's own words, this is the inventor's final published statement on how radio, at the radical, really works. He insists

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Military Lists

Copies of mil-references

Vintage Radio Lists

#TM11-487A Directory of Old Signal Corps...Radio Equipment, 8/ 1950. 4 pgs missing, 246 pp; \$25.95

#TM11-310 Schematic Diagrams of Signal Corp Ground Radio Equipment 1943-47; 32 selected vehicle & field radios; 228 pp. \$27.95

Vacuum Tube Lists

Vacuum Tube compliments of Signal 10/44; tube line-ups of many vintage military & commercial radios. Also lists by tube # the radios in which tube is used. 192 pages, 3 lbs. #TO-08-1-25, \$22.95

Electron Tubes, Cross Index and Type Identification, Nov '63; comprehensive list of tubes used by the US military; 303 pages, #MIL-HDBK-213A, \$30.00

German Electronic Lists

DIRECTORY OF GERMAN RADAR EQUIPMENT (US WAR DEPARTMENT MANUAL, TME 11-219, APRIL 1945) Pictures and drawings of German Radar Equipment to aid the recognition of equipment and components. I suppose this was part of the clean up of war material after the war. Reproduction 68 pages. #TME11-219, \$23.00.

German Explosive Ordnance (Projectiles and Pojectile fuses) 1953. Each lists the German Nomenclature, Weapons, Projectile, Type, Charge. Cutaway views of projectile. Reproduction. #TM9-1985-3, \$36.95

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Volume control round knob for BC-348. o/a 1 1/4" diameter. #KN348-1, Unused, \$6



Antenna alignment round knob for BC-312/342. Fits 1/4" diameter shaft. o/a 1" diameter. #KN312-2, Unused, \$6.00

Control round knob for BC-312/342. Fits 1/4" diameter shaft. o/a 7/8" diameter. #KN312-4, Unused, \$6.00



Medium bar knob for various GRC radios. Top screw mount. o/a 1 3/8"L x 7/8"W x 3/8"H. #KNGRC-1, Used, \$3.50

Volume control round knob for various Hallicrafters radios. Fits 1/4" diameter shaft. o/a 1 1/8" diameter. #KNHAL-1, Used, \$3.50



Fluted Knob with pointer. Fits 3/8" dia. shaft. o/a 2 3/8" Diameter. #KNF-4, Unused, \$5.00

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Dark Brown Fluted Knob for press fit shaft. o/a 0.9" dia #KNDBF-5, 5/\$2.00



Rounded BAR KNOB, 1-1/8"L x 3/4"W x 3/4"H. Brass insert f/ 1/4" dia shaft. #KNART13, 3/\$2.00

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Round Knob. o/a 1.4" diameter. Fits 1/4" diameter shaft. #KNR-5, 4/\$2.00



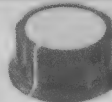
Rounded Top Knob with decorative ridges. o/a 5/8" dia. Fits 1/4" half round shaft. #KNR-6, 5/\$2.00



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AN/ARR-2,A,X,X Op's repro 18.00	AN/PRC-74/A repro 40.00	AN/USM-140 repro 23.00	BC-659 (SCR-609/610) 18.00	PP-6241 repro 14.00	TS-585 repro 10.00
AN/ARR-52 repro 20.00	AN/PRC-74B,74C,PP-4514 / 4514A W/theory, schematic, repair As above but with parts list/special tools 82.00	AN/USM-281C (Tektronix 7603N11S) repro 30.00	BC-669 repro 18.00	PP-6241 repro 14.00	TS-671 repro 18.00
AN/ART-13 repro 25.00	AN/PRC-119 A, D; AN/VRC-67 A, C, D; VRC-88A, D; VRC-89 A, D; VRC-90 A, D; VRC-91 A, D; VRC-92 A, D. Has line drawings, inter wiring, and trouble shooting trees. repro 67.00	AN/USM-323 (HF-8640B opt 323) repro 45.00	BC-728A,C repro 18.00	PP-6241 repro 14.00	TS-710 original 20.00
AN/ASN-33 Op's repro 14.00	AN/PRM-1A repro 30.00	AN/USM-338 repro 25.00	BC-779/1004 repro 23.00	PP-6241 repro 14.00	TS-723 repro 18.00
AN/CR-7 Op's with schematic repro 12.00	AN/PRM-10 repro 12.00	AN/USM-425V repro 30.00	BC-787B,C Hallicrafters S-27 repro 18.00	PP-6241 repro 14.00	TS-1325, TS-1324 repro 23.00
AN/CRT-3 repro 12.00	AN/PRM-12 repro 12.00	AN/USM-425V repro 30.00	BC-792A repro 14.00	PP-6241 repro 14.00	TSQ-54A repro 20.00
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AN/FRR11,12,13 SRR-11,12,13,13A repro 72.00	AN/PRM-14 repro 12.00	AN/USM-425V repro 30.00	BC-1031A,B & BC-1032A,B repro 18.00	PP-6241 repro 14.00	TV-7,A,B,D repro 18.00
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AN/GRA-6 original 14.00	AN/PRM-19 repro 12.00	AN/USM-425V repro 30.00	CRF-20221A Original 18.00	PP-6241 repro 14.00	COLLINS - 30L1, KWM-2A, 516F2, etc mil-repro, \$35.00
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AN/GRC-3-8 Repro 30.00	AN/PRM-21 repro 12.00	AN/USM-425V repro 30.00	CU-872 repro 18.00	PP-6241 repro 14.00	Hallicrafters S-27 BC-787B,C repro 18.00 S-37 repro 18.00
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	AN/PRM-26 repro 12.00	AN/USM-425V repro 30.00	CV-591 (MSR-4) repro 18.00	PP-6241 repro 14.00	
	AN/PRM-27 repro 12.00	AN/USM-425V repro 30.00	CV-1758/UR repro 18.00	PP-6241 repro 14.00	
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	AN/PRM-32 repro 12.00	AN/USM-425V repro 30.00	EE-8 repro 14.00	PP-6241 repro 14.00	
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	AN/PRM-105 repro 12.00	AN/USM-425V repro 30.00		PP-6241 repro 14.00	
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	AN/PRM-116 repro 12.00	AN/USM-425V repro 30.00		PP-6241 repro 14.00	
	AN/PRM-117 repro 12.00	AN/USM-425V repro 30.00		PP-6241 repro 14.00	
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Miniature Lamps

Type#	5 pack	10 pack	Type#	5 pack	10 pack
4	\$1.75	\$2.95	398	\$1.75	\$2.95
5ES8	\$1.75	\$2.95	480	\$1.75	\$2.95
6ES	\$1.75	\$2.95	502	\$1.75	\$2.95
1056/13 230v	\$2.35	\$3.50	511	\$1.75	\$2.95
1056/13 250v	\$2.35	\$3.50	757	\$1.75	\$2.95
12	\$5.00	\$8.00	1156	\$1.75	\$2.95
12RC	\$6.00	\$10.00	1157	\$1.75	\$2.95
13	\$1.75	\$2.95	1251	\$2.35	\$4.00
14	\$1.75	\$2.95	1252	\$2.35	\$4.00
15T6 130v	\$2.35	\$3.50	1356	\$1.75	\$2.95
15T8C 120v	\$2.35	\$3.50	1455	\$1.75	\$2.95
24ES	\$1.75	\$2.95	1819	\$1.75	\$2.95
24X	\$3.75	\$6.00	1822	\$2.00	\$3.50
24-68M	\$1.75	\$2.95	1828	\$2.00	\$3.50
LM44	\$1.75	\$2.95	1843	\$3.50	\$5.50
45	\$1.75	\$2.95	1886	\$1.75	\$2.95
46	\$1.75	\$2.95	1895	\$1.75	\$2.95
47	\$2.95	\$4.50	2187	\$1.75	\$2.95
48ESB	\$3.50	\$5.50	7341	\$3.25	\$5.00
48H	\$1.75	\$2.95	7349	\$2.35	\$4.00
81 \$3.95ea	\$17	\$25.00	7376	\$1.75	\$2.95
130	\$2.00	\$3.50	8462	\$1.75	\$2.95
161	\$1.75	\$2.95	8602	\$1.75	\$2.95
219	\$2.95	\$4.50	321T3-0	\$1.75	\$2.95
233	\$2.95	\$5.00	NE16	\$3.50ea	\$16
239	\$1.75	\$2.95	NE45	\$3.50ea	\$16
245	\$2.35	\$4.00	NE48	\$5.50ea	\$26
267	\$1.75	\$2.95	PR5	\$1.75	\$2.95
306	\$2.35	\$4.00	PR7	\$1.75	\$2.95
313	\$1.75	\$2.95	PR8	\$1.75	\$2.95
327	\$1.75	\$2.95	PR10	\$1.75	\$2.95
331	\$6.50	\$11.00	PR12	\$1.75	\$2.95
372	\$1.75	\$2.95	PR13	\$1.75	\$2.95
387	\$1.75	\$2.95			
388	\$1.75	\$2.95			

Strobe Lights

ELECTRONIC FLASHING LIGHT for alarm systems, discos, personal use, warning in case of danger, etc... Long-life xenon tube. Fully sealed and waterproof. Power output: 1W. Power supply: 12VDC. Current: 150mA. Flash rate: 120/min. Black ABS / acrylic cover. Dimensions: 2.8" (y) x 2.5". New, \$9.99 ea. Available in the following colors: Amber #HAA40A; Blue #HAA40B; Green #HAA40G; Red #HAA40R; Clear #HAA40W

ELECTRONIC FLASHING LIGHT. Flat lens. Requires 12VDC. Input current 85mA/1W. Flash rate 1.5Hz. Screw mounting. Suitable for indoors and outdoors. 3.9" x 3.1". New, \$21.80 ea. Amber, #HAA100A; Blue, #HAA100B; Red, #HAA100R; Clear, #HAA100W;

Rotating Beacon Flashing Light. Works on 12-14Vdc via cigarette lighter plug. Comes with suction cups. 90 revolutions per minute. 4 23/32" x 2 9/16" x 2 3/4". 2 lbs sh. 9 1/2 ft. cable length. New, \$19.95 #HAA65A, Amber; #HAA65B, Blue

Cathode Ray Tubes

CRTs are used no burns unless noted "UN" = Unused

3ACP1 18.00	4MP1 23.00	5BHP2 23.00
3BP1A-U 18	4QP31 40.00	5CP1-UN 12.00
3BP1A-UN 35	5ABP1 23.00	5FP7 23.00
3DP1 7.00	5ADP7 35.00	7BP7 11.00
3DP1S-2 23.	5AMP2 29.00	902 nos 29.00
3HP7-UN 10	5AQP1 29.00	SMD460260-UN 12
3UP1 23.00	5BDP7 nos 18.	Z4516P11-UN 12

Tektronix CRT'S used no burns. \$57.00 each Others available - tell us your needs.

#154-0672-05 #T5810-31 (154-0354-00)
#T0540-2 (154-0098-00) #T5471-31-2 (154-0568-00)

3" CRT Shield for 3RP1 etc. #SH-CRT-3, \$18.00
5" CRT Shield for 5ADB7 etc. #SH-CRT-5, \$21.00

Pilot Lights & Indicators

SUB-MINIATURE NEON PILOT LIGHT with 5/16" dia clear jewel. Base is receptacle for three 1/16" pins in triangle pattern. Mounts in 3/8" dia hole. O/a 1/4" L; includes neon bulb. #PIL007, 3 for \$1.00

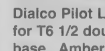
Dimmer Light holds NE-51 bulb (not included); 1/2" dia clear jewel. Fits 5/8" dia hole; o/a 3" L. #PIL-C433, \$1

LAMP HOLDERS for 327 lps; fit 1/2" hole. Flat WHITE numbered lenses; specify: "4", "5", "6", or "9". #0934, 3 / \$2.00

Pilot light w/ 327 lamp; white lens. Used #FLW-327, \$1.55



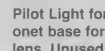
Dialco Pilot Light for S6 screw base. Red lens. Marked 75 watt, 125 volt. Unused, #PL-S6-S, \$3.50



Dialco Pilot Light with faceted lens for T6 1/2 double contact bayonet base. Amber lens. Marked 75 watt, 250 volt. Unused, #PL-T6-S-DC, \$3.00



Pilot Light for T1 3/4 midget flange base 327 bulbs etc. Red lens. Unused, #PL-T1-8, \$3.50 each; 10/\$30



Pilot Light for T3 1/4 miniature bayonet base for 313 bulbs etc. Amber lens. Unused, #PL-T3-3-A, \$3.50



Pilot Light for T3 1/4 miniature bayonet base for 313 bulbs etc... Green lens. Unused, #PL-T3-3-G, \$3.50

Tube Boxes

Quality plain white boxes ideal for storing tubes or other components. Compare our price to the competition and save! No divider insert.

P/N	Dimensions	per 10	per 25	per 100	per 1000
CB6W	1.5x1x3	\$1.75	\$3.55	\$12.00	\$95.95
CB3W	1.5x1.5x4	\$2.00	\$4.20	\$14.25	\$109.95
SB16W	1.75x1.75x6	\$2.30	\$5.10	\$16.55	\$138.00
SB17W	2.5x2.5x6	\$3.00	\$6.55	\$20.95	\$169.50

Tube Shields & Etc...

For most 7-9- pin mini tubes

#TSH-(specify tube #) used, 2/\$1.00

#T103U02 SHIELD 12AX7-size, 2/\$1.50

BLACK IERC-Type SHIELDS, used:

#TR5015 (6AK5), \$2.00; #TR6015 (5842) \$1.10

TUBE TEST ADAPTERS for TV-7, used:

#E104 for sub-mini tubes, \$5.75

#E105 for septar 829/832, \$8.00

#E107 for 2C39, \$8.00

OCTAL TUBE PULLER

Pull out octal tubes in those hard to reach areas. Stands around 6 3/4" tall. 1 lbs sh. #TP-7, \$7.00

TUBE PIN STRAIGHTENER

for Mini 9 pin tubes. Stainless steel straightening area for years of use. 2 mounting holes 1 5/8" center to center. Unused, #STR-9, \$6.95

OCTAL TUBE SAVER

Save those expensive octal tubes that have broken guide pins. Replace the broken guide pin by slipping this plastic piece over the proper pins. High strength/temperature plastic. Reuseable. #KY-1, New \$1.75; 10/\$13.50

Tube Sockets

4 pin Ceramic for 300B/2A3/811, 2 hole mount. #GZC4-1, Unused, \$2.95

4 pin Ceramic for 805/845/211, 2 hole mount. #GZC4-3B, Unused, \$9.60

4 pin Ceramic for 300B/811, with twist lock collar. #GZC4-1B, Unused, \$6.95

5 pin Ceramic Socket that fits a 4-125, 4-250, & 4-400 tubes, etc... #GZC5-A, \$7.95

5 pin Ceramic for 807, 2 hole mount. #GZC5-1, Unused, \$1.70

6 pin Ceramic 2 hole mount. #GZC6-1, Unused, \$1.90

7 pin Ceramic that fits 1625 tube, etc. #GZC7-13, \$2.25

7 pin ceramic for 813 tube 4 hole mt, #GZC7-A, \$5.25

7 pin Septar Ceramic square, #GZC7-C, \$3.95

7 pin Septar Ceramic Square, #SK-SEPT, Used, \$8.00

7-pin mini, Fiber Wafer, #SK-7MF, new, 2/\$1

7-pin mini, bakelite, #SK-7M, unused, 2/\$1.50

7-pin mini, ceramic, #SK-7CER, unused, 2/\$1.50

7-pin mini, moulded push-in w/ ridge, #SK-7MP-R, unused, 3/\$1.20

7-pin mini, moulded push-in no ridge, #SK-7MP-NR, unused, 3/\$1.00

7-pin mini with collar for shield, #SK-7C, new, \$7.5

7-pin mini ceramic w/ collar t/shield, #SK-7MC, \$1

Octal Ceramic 2 hole mt. #GZC8-1, Unused, \$1.20

Octal Ceramic PC mount. #GZC8-Y, Unused, \$1.20

Octal bakelite, ring, #SK-OCT-R, used, 2/\$1.00

9 pin mini Ceramic 2 hole mt. #GZC9-F, Unused, \$1.10

9 pin mini Ceramic 2 hole mount w/ collar for shield. #GZC9-F-B, Unused, \$1.20

9 pin mini Bakelite 2 hole mount w/ collar for shield. #PCP9-1, Unused, \$1.05

9-pin mini ceramic w/ collar t/shield, #SK-9M, used, \$4.50

9-pin mini PC mount black, unused, #SK-9PC-BL, \$1.50

9-pin mini PC mount brown, unused, #SK-9PC-BR, \$1.55

12 pin Compactron Ceramic Socket that fits a 6KD6 tube, etc... #GZC12-F-1, \$3.25

SUB-MINI, round, long-lead, #SK-MIN, unused, \$1.00

Acorn Flat Ceramic Socket #SK-ACORN, Used, \$6.00

4X150 Dual Socket Assembly from the T-195, two sockets on 4.3" x 2.9" chassis with 1.1" H bakelite chimneys; #4X150/T195, used: \$23; 2 for \$37.00

Two Johnson #244 Ceramic Sockets mounted on an aluminum plate 3" deep x 7.5" wide. Each of the sockets has a 1 7/8" diameter removable mounting clamp. Works with 6CM, 576 tubes etc. 3 lbs sh. #DUAL-244, Used, \$14.00

Plate Caps

Ceramic Plate Cap for 1/4" diameter, #MCV, Unused, \$1.19 each; 5 for \$5.00

Ceramic Plate Cap for 5/16" diameter, #MCX, Unused, \$1.39 each; 5 for \$5.75

Ceramic Plate Cap for 3/8" diameter, #MCD, Unused, \$1.59 each; 5 for \$6.50

Ceramic Plate Cap for 1/2" diameter, #MCD, Unused, \$1.99 each; 5 for \$7.50

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

\$4.50 Unused / \$2.50 Used - Vacuum Tubes

- MANY other tubes available. Visit our website for a much more complete listing or tell us your needs.
- If you specify unused and unused is sold-out, we will ship used checked, unless you specify "unused only".
- Many tube types available in glass and metal. Please specify if you have a preference.

The tubes listed below are \$4.50 unused and \$2.50 used.

0A3 0C3 0D3 0Z4 1A5 1B3 1B4 1C5 1E7 1J3
1L4 1N6 1P5 1R4 1R5 1S2 1S4 1S5
1T5 1X2 1V2 1L4A 1LC5 1LD5 1LE3 1LN5

3B4 3D6 3Q4 3Q5 3S4

5A6 5AN8 5J6 5T8 5U8 5V6 5W4

6A6 6B8 6C4 6F8 6G6 6H6 6J4 6J5 6J6 6K4
6L7 6N7 6R7 6S8 6T4 6T8 6U6 6U8
6V3 6V7 6W4 6X8 6Z4

6AB4 6AB7 6AC7 6AF3 6AF4 6AF9 6AF11
6AG5 6AG7 6AH6 6AK5 6AL5 6AN5
6AN8 6AQ5 6AQ7 6AS5 6AS6 6AU4 6AU5
6AU6 6AU7 6AV5 6AV6 6AX4 6AY3 6BA11
6BC5 6BC8 6BD5 6BD11 6BE6 6BH6 6BJ3
6BK5 6BK7 6BN4 6BN6 6BO6 6BQ7 6BU8
6BX6 6BZ7 6CB5 6CB6 6CD6 6CF6
6CM7 6CS6 6CS7 6CU5 6CU8 6CY5 6CY7
6DA4 6DE6 6DG6 6EA5 6EB8 6EH4 6ES5
6GJ7 6HB7 6HS8 6JT8 6JZ8 6LE8 6LU8
6MN8 6SD7 6SF7 6SH7 6SK7 6SQ7 6SR7

7A4 7A5 7A6 7A7 7A8 7B4 7B8 7C4 7C7 7E6
7E7 7J7 7K7 7L7 7Q7 7R7 7S7 7T7 7V7 7W7
7X6 7X7 7Y4 7Z4 7AD7 7AG7 7AH7 7AK7 7AU7

12A6 12A8 12C8 12D4 12H6 12J5 12J7 12K7 12K8
12L6 12W6 12X4 12Z3 12AC6 12AH7 12AX4
12AZ7 12BA7 12BF6 12CA5 12SF5 12SH7 12SJ7
12SK7 12SL7 12SR7 12SW7 12SV7

14A5 14B8 14C5 14C7 14E6 14N7 14R7 14W7

17D4 17AX4 17BF11 17GW6 19T8 19AU4 19X8
21GY5 21JV6 25L6 25W4 25Z5GT 25Z6 25BQ6
25DN6 32L7 35A5 35B5 35C5 35L6 35Z3
35Z4 45Z5 50Y6 70L7 11Z74 11Z73 11Z76

34 35/51 36 38 39/44 43 55 57 58 78 79 89
5651 5654 5670 5725 5726 5727 5750 5963 5965

6005 6136 6186 6888

7056 7167

9001 9003 9004 9006

Sovtek Tubes

Electro-Harmonix

A premium quality tube mfg by Sovtek. "EH" =

Type	Price	10-24	25+	Match	Pr
6L6EH	14.25	13.25	12.25	32.55	
6V6EH	9.95	9.50	8.95	20.00	
EL34EH	12.25	11.70	10.70	28.45	
12AX7EH	8.95	8.50	7.95	N/A	
12AT7EH	9.95	9.50	8.95	N/A	
12AU7EH	9.95	9.50	8.95	N/A	
12AY7/6072EH	11.95	11.50	10.95	N/A	

Other Sovtek tubes new:

Type	Price	10-24	25+
5AR4	11.95	10.95	9.50
5Y3GT	10.95	10.50	9.95
6BQ5/EL84	8.25	7.70	7.25
6L6GB	8.95	8.40	7.95
6SL7	9.25	8.80	8.25
6SN7	9.25	8.95	8.50
6550WE	23.95	22.95	21.95

KT66 \$22.95 each; 10 to 24 pieces at \$20.95 each;
25 and greater \$19.95 each
\$49.95 for matched pair; \$99.90 for matched quad

KT88, \$24.95 each; 10 to 24 pieces at \$22.95 each;
25 and greater \$20.95 each;
\$53.95 for matched pair; \$107.90 for matched quad

Used Tubes / Grab Boxes

USED-checked (US-mfg):

01A (ST), 17.95; 2E22, \$18.00; 3E29, \$9.00;
5U4GB, 5Z3, \$4.75; 6AS7G, \$6.00;
6JB6, 6LB6, \$12.50; 6SL7WGT, \$4.00;
6V6GT, \$7.00, 24A, or 27, \$6.00;
26, 42, 75, \$9.00; 45 ST, \$36.00; 71A, \$17.00;
80, 807, \$9.00; 6080W, \$4.25;

GRAB BOX TUBE SALE

3 lbs of varying types of unchecked used or
unused tubes. Randomly picked from our inventory
of tubes of low demand. #TB-GB-3, \$20.00

As above but 6 lbs. #TB-GB-6, \$30.00

Power Amp Tubes



4CX350F/J 26VDC Power Tube.
Has a maximum plate dissipation
of 350 watts.
Removed from equipment, \$65.00

4CX300A / 8167, JAN Eimac Unused, \$45.00
4X150D, 26 V filament, used STT, \$16.00
4X150G, coaxial type, used STT, \$19.00

8906 tube is also a ceramic metal planar tube.
Filament voltage 6V; Max plate watts = 10;
Max plate volts = 2500. Used checked, \$60.00

7815 similar to 8906 but max plate volts is 3500, \$55

7554 HIGH MU TRIODE. Heater-cathode, ceramic-
metal, pencil type used as rf amplifier, oscillator, and
multiplier in airborne equipment. Used STT, \$29.50

Unusual Tubes

No markings but looks like some kind
image or photomultiplier with 14-pin bas-
ing. 4.8"Hx 2.3" dia glass w two 1/2"L con-
tact pins opposite each on tinted end of
cylinder; 1"L glass extension from side.
#XTUBE-98, \$20.00

702B mfg by Sylvania. This unusual
tube appears to be a special diode for
UHF applications. Clear glass with gold
plated rings. Great collectors piece! 1" dia x 2.3"ht.,
Unused, \$15.

JAN 705A RECTIFIER, 4-pin base; 5"Hx2.3"
dia. used \$4.00

GL-6044 oversize 6-pin w/ 4 tabs;
5.3"Hx2.3" dia. UNUSED, \$5.00

C6M THYRATRON, 8.5"Hx2"dia Used, \$4

Klystron / TWT

6116 REFLEX KLYSTRON METAL VACUUM TUBE, a
rugged version of the 2K45. Requires 6.3V at 762
milliamperes. Reflector voltage: -95 to -145.
Frequency range: 8500-9660 MHz. Power output: 32
milliwatts. Output coupling: waveguide RG-52/U.
Unused, \$29.95

SRL-7H for 2160-2400 Mhz; 6.3 V filament, -1000
VDC beam V; reflector volts -1300 to -2000 V. Coarse
& Fine Tune slugs, N-con & octal base. 6.5"x
5.2"x4.5", 4 lb unused w/infor, \$49.50

VARIAN VA-98M/8901 KLYSTRON, 23.6 - 24.4 Ghz
100 mw CW; Eb=500 V @ 40 ma. 2.8"Lx 1"Hx1.3"D
w/ 6"L wire leads; 2 lbs sh. NEW, \$125.00
Filaments checked, but not guaranteed.

RCA 4012/A1157 TRAVELING WAVE TUBE, 2.0-4.0
Ghz, 36 db min., 20 mw min. 15.5"LX3.5"Hx1.5"W. 4
lbs UNUSED, \$40.00

Geiger Mueller Tubes

Geiger Mueller 5980 (also known as BS-2) Tube
from the PDR-27 radiac set, Unused, \$35.00

Geiger Mueller 5979 (also known as BS-1) tube
for PDR-27 radiac sets, Used, \$39.50

Antique Globe Tubes

Tubes below are used-checked;

01A, \$19.75
224/324, 235/51, \$8.95;
227/327, 239/44, \$11.95;
226/326, \$13.00; 80/280, \$33.95; 245/345, \$69.00;

Pull-out Sale

"pulled-out" of equipment-- NOT TESTED/ NOT
GUARANTEED! (One tube type per quantity!)

10 for \$8.00; 100 for \$50.00
6AC7 6AG5 6AH6 6AK5 6AL5
6AS6 6CB6 6J4 6J6 6W4GT

OTHER "PULL-OUTS"

10 for \$10.00, 100 for \$75:
6AQ5 6AQ5/6005

SEE A MORE COMPLETE TUBE LISTING AT fairradio.com/tubes.htm

Sonalert - LOUD !!

2 to 6VDC Sonalert mounted on a 2" x 2 3/16" aluminum panel with 4 mounting holes. This unit is very loud at 2VDC and almost intolerable at 6VDC. 2 lbs sh. #SONA-6, Used Excellent, \$4.75

Sounding Device

MINI PIEZO SIREN 6-15Vdc / 140mA 107dB LEAD TYPE. Made from high impact ABS plastic. Dimensions : 1.5" x 1.7" x 2.2". 1 lb sh. Mounting holes: 0.87". #SV/PS1, \$5.60

Faraday Horn

FARADAY 48 VDC 100 ma HORN, made for Bell Telephone; makes loud, penetrating sound w/ screwdriver volume adjust. Steel construction; recess mount. Front size 4x4x1.3 1.3" panel depth. 3 lbs #KS-12037L2, New, \$6.95

LOUD BUZZER HORN as used in smoke alarms; 2" dia x1.3". #41-81-110, 110VAC \$3.

Alarm Bell

ADAPTABEL INDUSTRIAL ALARM BELL, 5.8" dia bell operates from 6 VDC 250 MA for non-fire use. Heavy metal cast construction with mount hardware; 3 lbs. Edwards #435-6C1, new, \$12.00

Speakers

3 X 5 SPEAKER, 1 watt at 16 ohms with 1.8" dia magnet; 1 lb sh. NEW, #SPK-3-5, \$1.50 ea; 10/\$12; 100/\$95

4" Square Speaker. 8 ohms rated at around 1 watts. 1 1/2" depth. 2 lbs sh. Unused, #SPK-4-8, \$3.95

2 3/4" Round Speaker with no mounting holes. 45 ohms rated at around 1/2 a watt. 1.1" depth. 1 lb sh. #SPK-2.75, Unused, \$2.50

4 3/4" Square Speaker 8 ohms at 5W. #SPK-475, \$6.00

5.5" x 3.5" Speaker 8 ohms at 2W. #SPK-5.5, \$4.00

1 5/8" Square Speaker 8 ohms @ 0.1W. #SPK-158, \$1.50

1 7/16" Round Speaker 8 ohms @ 0.1W. #SPK-1716, \$1.49

7" Audio Tape

7" Professional Audio Tape by Ampex model 631. This is the 1.5 mil tape, 1200' of 1/4" tape. These reels of tape are excellent for DBX reels and others to decrease tape noise, consider by many as the standard for reel recording.

ing. These reels are truly the standard for audiophile recordings, and a must for the reel collector. 3 lbs shg on one. 10 lbs shg on twelve. #TAPE-631, Unused, \$3.75 each; 12 for \$39.95; 24 for \$65.95; 96 for \$150

50 Amp P.S. Chassis

PP-4763/GRC POWER SUPPLY, produces 28 VDC 50 amps from 115 VAC 22 amps 47-63 Hz 22/11 amp input; solid-state with +/- 0.5% regulation. Has meters 0-50 VDC and 0-80 amps DC; 13.5x19.5x15, 145 lbs.

#PP-4763-LM, Used less control card, both mtrs, and circuit breaker, \$140.00 Manual repro, #MM-PP-4763, \$18.00

Charger/Conditioner Kit

Kit require insertion & soldering of components!

UNIVERSAL BATTERY CHARGER / CONDITIONER. NiCd and NiMH batteries or different can be charged both quickly (52 minutes) and normally (14 hours). Usable battery voltages: 1.2V, 2.8V, 3.6V, 4.6V, 6V, 7.2V, 8.4V and 9.6V. Charge current: from 15mA to 750mA. Battery is fully discharged prior to charging and thus has a longer life. 3.4"x3.1". #K7300, New, \$28.98 Recommended housing: #G311, \$10.20

Audio Filter

AUDIO LOW PASS FILTER. No specs available, but output is good from 10 Hz to the limit of the filter. The drop off is very quick. The circuit is passive and causes an approximate 50 % attenuation of the signal. The input impedance

seems to be about 2400 ohms. 4.5 x 1.5 x .5, 15KHz LPF #F069215, \$5.50

Alarm Horn

Dual Horn Electronic Assembly made by Conair Division of General Dynamic. Operates on 28VDC 2 amps at 130DB plus. Will not operate properly on 12VDC. Comes in O.D. Green louvered housing. 17.2x13.8x14.8, 40 lbs sh. #76L2661-1, Unused, \$140

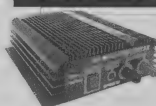
Megaphone

\$25 Watt Hand-held Power Megaphone with shoulder strap. With siren, Detachable anti-howl microphone with coiled lead, On/off switch, Handle with on/off switch, Separate microphone with lock function, ABS housing, Microphone sensitivity: -36±1dB (0dB = 1V/pa), Frequency response: 500 - 8KHz, Power supply: 12Vdc (8 x 1.5V D battery, not incl.), Horn dimensions: 9.5" x 13", Length: 14". #M25SM, List Price, \$92.40; Our Price, \$75.90

Transistor Audio Amplifier

TRANSISTOR AUDIO AMPLIFIER w/5-transistors, On-Off-Volume and Tone controls. Inputs for ceramic or crystal phono cartridges. Other possible uses as intercom, homebrew receiver, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Requires 6-9 V AC or DC; with schematic. 1.5 x 2.3 x 3.3. #ER-10-1231, NEW, \$3.50 ea; 2 / \$5.75; 6 / \$13.95; 100/\$150.00

24V - 12V Converters



24VDC TO 12VDC 20 AMP CONVERTER. Compact design for in-car use. Input 24VDC. Output 12VDC. Maximum current 20 amps. Banana plugs. Fuse protected. Drop shipped from Texas. #PSDC20, New, Regular Price \$79.90; Our Price, \$69.99

24 - 12 VDC Converter. Compact design. Input 20-30VDC. Output 12VDC. Maximum current 5 Amps. Cigarette lighter plug. Fuse protected. 3 lbs sh. #PSDC05, New, \$23.95



Wall Transformers

AURORA TOY WALL TRANSFORMER, changes 120 VAC to 9.5 VDC 350 ma output. 6' cord with slide lugs; 2 lbs sh. #AUR-95V34V, 2 / \$4.50

CERVCO AC ADAPTER, 11.5 VAC 175 ma out-put; 6' cord w/o lugs. #CER-11.5V, 2 / \$3.50

Secondary 8VAC 375ma Wall Transformer by Hewlett Packard. 120VAC input. #B2059D, Unused, \$2.00

13 VDC 1 Amp Wall transformer from 120VAC input. 6 ft cord w/ "Barrel Type" DC power connector O.D. 5.0mm; I.D. 2.5 mm. 2.6x2.2x3.4, 2 lb, #TAACA021, \$3.00



Electronic Trainer

Nida Trainer Model 130, Originally for electronic class troubleshooting instruction. This unit is power supply and test frame only, no test circuits, plus and minus low voltage power supply each 6, 9, 12, 15 volts and variable to 24 vdc current limited 25, 50, 75, to 100 ma variable. Also high voltage 50, 100, 150, 200 to 250 vdc variable with current limit of 10, 20, 30, 40 to 50 ma variable. Large voltmeter and milliammeter to monitor the output. Mini toggle switches under front panel to switch problems into circuit. This would make nice tube/low voltage breadboard station for your shop. Requires 115VAC 60Hz. 14.7x18x9, With Schematic. 25 lbs #NIDA-130, Used, \$50

Industrial Transformers

Taps 90 thru 3KV at 20KVA at any tap #3KV-20KVA, \$999 (Primary 160V 137.5A) 5 - 3000Hz One Phase 20.3x16.5x22.5, Open Frame, Approx. 500 lbs
115/270V 4.9KVA 10x9x9.7 (C) 100 #44-115V-4.9KVA, \$275 115/135V 2.7KVA (600VAC only primary)
71V 53.5A 8.7x9x9.2 (C) 80 #44-71V-53.5A, \$225 (Primary 200/230/380/415/460/575VAC)
229V 70A 3 Phase Y 22.5x11.3x18 (C) 400 #SHED-Y, \$695 (Primary 420/440/460/480/500V 37-31A)
230V 250KVA 5.8x5.4x5.9 (C) 19 #42-230V-250KVA, \$42 (Primary 208/270/325/380VAC)

Misc Transformers

MODULATION TRANSFORMER Pri: 5500 ohm 235 ma or 2000 ohm 300 ma. Sec: 200 ohm 20ma 90 watts max. 3.1x3.5x2.9, 4 lbs. #677-0923, used, \$10
"ISOLATION" TRANSFORMER pri 115V 60 Hz; sec 105 VAC 500ma 3.5x3.5x2.5, 6lbs. #45099037, \$7.50
TRANSFORMER-POWER SUPPLY Pri: 2 x115 VAC 48-62 Hz. Sec: 570 VCT 200 MA, 25 VCT 1.2 amps, 6 V 8 A. On chassis w/sockets for two 26Z5 tubes; 20 lbs. #PS-R390A, used, \$35.00



PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

Low Voltage Transformers

All 120 VAC 60 Hz primary unless otherwise noted; styles as indicated may be "used" or "unused". Dimensions listed below are case only, so make allowance for terminals. Weights listed below are considered SHIPPING weights. Limited stock.



STYLES (A) (B) (C)

SECONDARY SIZE STYLE WT STOCK # PRICE

2.5VCT 10A, 2.2x3.7x2.4, (C) 3 #166S2, Hammond Mfg, New, \$22.15; 4 pcs \$19.02 ea

5VCT 3A, 1.8x3.3x2, (C) 3 lbs sh. #166MS, Hammond Mfg, New, \$13.64; 6 pcs \$11.82 ea

Two 5 V 3 A 3x3.3x3.4 (C) 7 #P-6333 \$19.95 7.5/6.3 VCT 3 amps, 6.3 VCT 4 A

6.3V 1A 2.2x1.8x1.9 (B) 5 #38-6.3V-1A, \$5.95

6.3VCT 4A, 1.8x3.3x2, (C) 3 lbs sh. #166N6, Hammond Mfg, New, \$19.42; 5 pcs \$16.53 ea

6.3VCT 10A, 2.25x4.1x2.7, (C) 4 lbs sh. #166S6, Hammond Mfg, New, \$31.81; 3 pcs \$27.11 ea

12V 3 A, 2x2.7x2.2 (C) 4 #4-12V-3A, \$6.95

12 V 9 amp, 5.3x4.3x4.8(C) 22 #P-601719 \$10.95 12 V 3.2 A, 12 V 2 A, 44 V 2.5 A. (12 V windings can be wired to produce 12 V 14 A)

12.6VCT 4A, 2.13x3.7x2.4, (C) 3 lbs sh. #166N12, Hammond Mfg, New, \$23.89; 4 pcs \$20.36 ea

12.6VCT 8A, 2.5x4.5x3, (C) 5 lbs sh. #166R12, Hammond Mfg, New, \$33.13; 3 pcs \$28.12 ea

14VCT 2A, 1.8x2.7x2.2, 3 #F-251X, \$7 Open Frame

16V 28A, 6.4x5.5x3.5 (C) 20 #10-16V-28A, \$39.95

16.5 VCT 2 amps 2.6x2.5x2 (C) 2 #BE15869 \$5.00

16.8VCT 6A, 2.9x3.3x4.1 (C) 6 #32-16.8V-6A, \$12.95 15.5VCT 250ma, Open Frame Epoxy Coated,

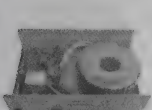
18V 4A 2.5x3x3.5 (B) 4 #13-18V-4A, \$8.50

18V 5.4A, 4.5x4.8x4(C) 16 #401-21 \$10.95 26 V 1 A, 6 V 900 ma, 25 V 500 ma, 35-10-0-10-35 V 5 A

18 V 1.5 A, 3x4x3.5 (C) 7 #BE12696 \$6.00 19 V 2.5 A, 10 V 4 A

22VCT 3 Amps 3.8x3x4 (B) 8 #3S92890015 \$11.95 80VCT 1.5 Amps

24V 20VA, 2.1x2.6x2.5, (B) 2 #6-24V-20VA, \$4.95



Torroid Transformer has dual 24VCT 8 amp outputs from 115V 60Hz input. With hardware & 2.3x8.8x5.6 chassis. Torroid 4.5" diameter x 1.5" height. 8 lbs sh. #BC-24V-ASSY. \$35.95

Taps 24/19/10V 1KVA at any tap 6x11x14 (A) 84 #M1539, \$99

25.2VCT 2A 2.1x3.9x2.6 (C) 4 #F-41X, \$10.00

28V 35.7A, 5.7x6.3x7.7 (A) 43 #35.7A, \$100.00 Unused, Made by Walker Electrical

29.2V 2A 3.5x3.9x3.5 (A) 7 #612-29.2V-2A, \$10.00 22.5V 2A

2x30 V 250 MA 1.8x2x1.5(C) 1 URC#60605 \$3.00

30 VCT 560 ma 2.5x2.3x2 (C) 2 #401-6 \$3.50 40 VCT 450 ma

32 V 3.5 amps 3.3x2.8x2.3(C) 4 #2-111219 \$6.95

32 VCT 1.5 A; 2.5x2.6x2.1(B) 3 #142259 \$4.95

35 VCT 1A 2.5x2.8x3(B) 3 #1341155-2 \$3.00 Rusty condition

38VCT 1.4A 2.2x3.3x2.3 (B) 4 #203A6725, \$6.00 5V 1 amp

38.9V 4A 2.6x3.8x3.5(C) 5 #021/0220050 \$8.75 tapped 26-9-3-0-9 V, 150 VCT 200 ma

40VCT 1A 2.2x3.7x2.2 (C) 4 #URC56000, \$6.00

46VCT 1.5A, 3.3x3.9x5.5, 11 #43-46V-1.5A, \$11 74VCT 150ma,

70 VCT 5 A, 4.5x4.8x4 (C) 16 #401-21 \$10.95 tapped 20 VCT; 18 V 5.4 A, 26 V 1 A, 6 V 900 ma

80VCT 1.5 Amps 3.8x3x4 (B) 8 #3S92890015 \$11.95 22VCT 3 Amps

90VCT 2A, 4.1x3.4x2.9, (C) 9 #24-90V-2A, \$17.00

Dual 90V 2.5A, 3x5.2x4.4, (C) 13 #20-90V-2.5A, \$23 tapped on each of the 95V windings at 60V, 32 vct around 200ma

Dual 95V 2.5A, 3x5.2x4.4, (C) 13 #28-95V-2.5A, \$26 tapped on each of the 95V windings at 60V, 32 vct around 200ma

100V 8.5A 7x6.1x6 (C) 33 #42-100V-8.5A, \$62.00

HV Transformers

SECONDARY SIZE STYLE WT STOCK # PRICE

375 VCT 50 MA 2.5x3x2.6 (B) 3 #8316527 \$7.50 6.3 V 2 amp (230 VAC only primary)

380VCT 65ma, 6.3 V@2.5 A, 2.7x2.2x2.7, 3 lbs sh. Hammond Mfg, New, #269EX, \$39.92; 3 pcs \$33.33 ea

500VCT 125ma, 6.3V 1A, 2.9x2.5x3.3 (B) 5 #TR180, \$18

520VCT 90ma, 6.3 V@3.5 A, 3x2.5x3.2, 5 lbs sh.

Hammond Mfg, New, #270DAX, \$50.72; 2 pcs \$45.60 ea; 4 pcs \$42.88 ea

550VCT 200ma, 5 VCT@3 A, 6.3 VCT@6 A, 4x3.2x3.9, 10 lbs sh. Drop shpd from NY. Hammond Mfg, New, #270HX, \$70.72; 2 pcs \$66.71 ea; 4 pcs \$64.18 ea

570VCT 200 MA 6x5.2x4.2 (A) 20 #390AHV, \$34.95 25VCT 1.2 amp, 6V 8 amp, (115 or 230 VAC primary)

600VCT 250ma, 5 VCT@4 A, 6.3 VCT@8 A, 4x3.8x4.6, 11 lbs sh. Drop shpd from NY. Hammond Mfg, New, #272JX, \$73.10; 2 pcs \$69.02 ea; 4 pcs \$66.30 ea

640VCT 128ma, 3x2.9x3.9, (C) 6 #TF1A03YY, \$24.95 6.3 V@5.3 A, Epoxy Coated.

640VCT 150ma, 5 VCT@3 A, 6.3 VCT@5 A, 3.5x3.2x3.9, 9 lbs sh. Drop shpd from NY. Hammond Mfg, New, #276X, \$72.42; 2 pcs \$68.34 ea; 4 pcs \$65.62 ea

700VCT 175ma, 5 V@3 A, 6.3 VCT@5 A, 4x3.2x3.9, 10 lbs sh. Drop shpd from NY. Hammond Mfg, New, #273BX, \$70.72; 2 pcs \$66.71 ea; 4 pcs \$64.18 ea

750VCT 175ma, 5 VCT@3 A, 6.3 VCT@6 A, 4x3.2x3.9, 10 lbs sh. Drop shpd from NY. Hammond Mfg, New, #274BX, \$70.72; 2 pcs \$66.71 ea; 4 pcs \$64.18 ea

800VCT 200ma, 5VCT@3 A, 6.3 VCT@6 A, 4x3.2x3.9, 11 lbs sh. Drop shpd from NY. Hammond Mfg, New, #278X, \$83.55; 2 pcs \$79.47 ea; 4 pcs \$76.75 ea

800VCT 465ma, 6.3 VCT@6 A, 5x3.8x4.6, 18 lbs sh. Drop shpd from NY. Hammond Mfg, New, #278CX, \$88.56; 2 pcs \$84.48 ea; 4 pcs \$81.76 ea

850VCT 150ma, 5 V@3 A, 6.3 VCT@5 A, 4x3.2x3.9, 10 lbs sh. Drop shpd from NY. Hammond Mfg, New, #279X, \$76.71; 2 pcs \$72.63 ea; 4 pcs \$69.91 ea

920VCT 50-70ma, 4.4x5.1x6, 17 #52-920V-50MA, \$27 1240VCT 50-75ma,

1000VCT 200ma, 5 VCT@3 A, 6.3 VCT@6 A, 4.5x3.8x4.6, 14 lbs sh. Drop shpd from NY. Hammond Mfg, New, #282X, \$90.21; 2 pcs \$86.13 ea; 4 pcs \$83.41 ea

1900VCT 30ma, 4.3x4x6, 12 #51-1900V-30MA, \$35 1150VCT 50ma,

Chokes

Swinging Choke, 1.5MHy at 200maDC, 460UHy at 4 ADC, DCR 0.24ohm. 1.7 dia. x 1.4 ht, 2 lbs sh. #TW-64713, \$12.00



1.5 mHY/3.0mHY 11A/1A swinging 6.8v-120cps .07 ohm 2x2.3x3, Sealed frame, 4 lb, #103-1.5MH-11A, \$11.50

C-114 LOADING COIL, adds 88 mH inductance to field phone wire increasing effective range 125+%. Water tight case; 4 lbs sh. #C-114, Used, \$12.00

5Hy 150ma, 105 ohm, 400VDC, 2x3.3x2, (C) 3 lbs Hammond Mfg, New, #158Q, \$20.95; 4 pcs \$18.10 ea

8Hy 100ma, 259 ohm, 400VDC, 1.8x3.3x2, (C) 3 lbs Hammond Mfg, New, #157M, \$23.37; 4 pcs \$19.95 ea

8Hy 128ma, 200 ohm, 505VDC, 2.2x2.3x3.1, (C) Epoxy Coated. 3 lbs sh. #TF1A04YY, \$15.00

10Hy 100ma, 262 ohm, 400VDC, 2x3.3x2, (C) 3 lbs Hammond Mfg, New, #158M, \$20.69; 4 pcs \$17.91 ea

15Hy 100ma, 256 ohm, 500VDC, 2.3x4.1x2.7, (C) 4 lbs Hammond Mfg, New, #159M, \$26.57; 4 pcs \$22.43ea

20Hy 100ma, 181 ohms, 600VDC, 3.3x2.5x3.1, (B) 5 lbs Hammond Mfg, New, #193C, \$37.37; 3 pcs \$30.99 ea

Audio Transformers

Primary Secondary

50 ohms 30ma 500 ohms 400 to 1900 Hz Mic Transformer 1.5x1.3x1.5(A) 1 lb #T204/PP115 \$4.

100 ohm to 200 ohm Driver Transformer. No further info. 1x2x1.2, (C) 1 lb sh. #TR65, Unused, \$4.

100 ohms 100K ohms; input transformer, 2.1x2.2x3.2, (A) 2 lb #T3/AM20, \$10

2/ 300 ohms 15 ma DC, Sec: 600 ohms, + 9dbm 100 - 3500 hz, 1.4 x 1.4 x 2.3, Made by UTC H-9985, #225C1015, \$10.00

600 ohms 8 ohms 2 watts, 1.6x" H x 1.3" dia. Removed from LS-166, #T1/LS166, \$19.00

10000 ohms 12ma DC, Sec: 8 OHMS, 100-3500 HZ, 1.5 X 1.5 X 2.3 H, #225C1010, \$15.00

10000 ohms 600 ohms, 100 mw, 200 - 20000 hz, DC current 0 Zero, Made by Freed. 1.3 x 1.3 x 2.3, #27780 \$15.00

Transistor Interstage Transformer. Primary 10K ohm to a Secondary 200 ohm Center Tap. Made by Stancor. Unused, #TA-34, \$12.00

Pri: 60000 (1.5 ma 90v), tapped 12500 (6.5 ma 90v) Secondary 600 ohms tapped 8 ohms, 200 - 3800 hz 200mw, 1.5 x 1.5 x 2.5, #TR-1017, \$18.00

Audio transformers which we were told were from Altec/Altec Lansing Public Address amplifiers. We have no specific data on these, but offer them to those who may know what they are. All ohms listed below are DC resistance.

Pri. 0.5 ohm; Sec. 8.7 ohm tapped 8.4, 8.3, 8. Open frame, 2.7x3.7x2.3, 4 lbs sh. Sam Woo mfg. #050-7000-00, \$6.00

Pri. 0.3 ohm; Sec. 3.7 ohm tapped 3.65, 3.6, 3.5. Open frame, 2.9x3.4x2.8, 6 lbs sh. Sam Woo #50-7001-00, \$9.00

Tamradio #302216, Winding(1) 19.3 ohms, (2) 5.7 ohms CT, (3) 3.4 ohms CT, (4) 5.2 ohms CT, (5) 20.4 tapped 17.1 ohms, (6) 21.5 tapped 16.7 ohms. Open frame, 3.1x3.2x2.8, 5 lbs sh. \$6.00

TRIAD TRANSFORMER

#TY-61X TRANSISTOR DRIVER 100 ohms 100 ma : 100 ohm CT, 50-10KHz 500 mw. 2.7x1.5x1.5. \$5.00

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

Switching Power Supplies



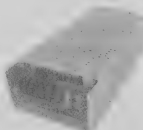
HEAVY DUTY SWITCHING SUPPLY, outputs +5 VDC 28 amps, +12 V 4 A, +24 V 1.5 A from 115 VAC 60 Hz in. W/ ON-OFF switch, & 16-pin Molex output connector. "AS-IS" complete, no schematic" 2x5x13, 6 lb #SWPS-526, \$8.95

SWITCHING POWER SUPPLY with 3" axial fan. Outputs +5 V 10 amp, +12 V regulated 2.5 A, +12.5 V 5 A unregulated from 115 VAC 50/60 Hz input. P/o Wang equip. 2.6x5.1 x12.5, 7 lbs. #12690, \$17.00



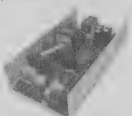
POWER SYSTEM switching supply, outputs +5 V 7 amps, +12 V 3 amps, -12 250 ma, -5 300 ma from 115/230 VAC 50-60 Hz input. 7.8x 4.4x1.5, 3#. NEW: #PS1558, \$18.00

Switching Power Supply, Outputs: 5VDC 20A, 15VDC 2.5A, -15VDC 1.0A, 24VDC 4.0A. Housing is perforated. Requires 115/230VAC 50/60 Hz. Xentec Inc mfg. 10.9x7x4.2, 7 lbs #SX200-81605, Used, \$10.00; 4 for \$34.00



Switching Power Supply, Outputs: 5VDC 21A, -5.2VDC 7.5A, 12VDC 4.7A, -12VDC 1.5A. Each output has a potentiometer adjusting the voltage +/- 1 volt. Perforated housing with a heatsink on top. Requires 115VAC 60 Hz. Various mfg. 10.9 x 7 x 4.2, 15 lbs #A3060884, Unused, \$12.00; 3 for \$29.95

24VDC 11 amp output switching power supply which DOES WORK with the R-392 and GRC-106 Receiver / Exciter. Requires 115V or 230V 60Hz. Made by Acme Electric Corporation. 9.5x5x2.5, 6 lbs sh. #25A1, Used, \$55



Power Supply Modules

+5/-5 V 3 AMP REGULATOR BOARD, up to 24 VDC unregulated. Capacitors two 15000 mf 15 V, 33000 mf 30 V. Two each KBPC rectifiers, 2N6576, 2N4441 SCR. 7.8x6x4; 3 lbs sh. #MEND-REG-5V, \$6.00



REGULATOR MODULES from Sun supplies, each with current limit and voltage adjust. Includes bridge rectifier, filter capacitor, two 2N3055 or equal and 723 regulator; 2 lbs sh. No further info. #SUN-REG-124, 12 V 4 amp, \$12.00 #SUN-REG58, 5 V 8 A w/OVP; \$10.00

Power Supply Kit

1A POWER SUPPLY KIT. This small power supply provides a regulated voltage, adjustable between 1.5 and 35 volts at 1 Amp. With the LM317 regulator remarkably better ripple and regulation characteristics are given with conventional regulators. Current limiter and thermal overload protection are included in the IC. Supplied without heatsink. Output current: 1.5A max. Max. dissipation: 15W (cooled). Max. input voltage: 40VDC. PCB dimensions: 2.1" x 2.1". #K1823, \$15.95



Power Supplies



5 VDC 3 AMP EXELON DC REGULATED SUPPLY, and 12 VDC 0.1 amp output from 115/230 VAC 47-63 Hz input. 5x5.3x2.8, 4 lbs. #PS-1545, NEW, \$10.00

12 VDC 1.5 AMP DC POWER SUPPLY, Adjustable +/- 2.25 volts. Requires 115 VAC 60 Hz; Mfg by ACDC Electronics. 4.9x6.3x3.4, 7 lbs sh. #10-4131-045, Unused, \$23.00



COLECO DISK DRIVE POWER SUPPLY for ADAM system; transformer type with outputs +5 V 3 amp, +12 V 2.9 A, -5 V 200 ma, and +18 V inductive 1 A. 115 V 60 Hz input. With cords and On-Off switch. 11x4x8, 10 lbs sh. #COL72559, unused, \$12.00

Linear Regulated Power Supply by Lambda, adjustable 20VDC +/- 5% at 5 amps. Perforated housing. Requires 205-265VAC 55-65 Hz. 10x4.9x4.8, 17 lbs, #LM-CC20-V, Used, \$52.00



Rackmount Lamp Power Supply by Westinghouse covering 12 to 65VDC at 3 to 9.5 amps from an input of 115/230VAC 60Hz. The power supply does have a current adjust but does NOT have a voltage adjust. The voltage is directly relative to what the current is set at. Has 2.9"H x 3.5"H panel meters for Amps and Volts. Running time indicator. 15.5x19x7, 49 lbs sh. #WE-65, Unused, \$139.50



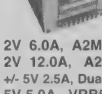
Sorensen DCR40-13B Rackmount Power Supply 0 to 40 V @ 13 A. Low-level remote sensing, manual & automatic control, direct & master-slave paralleling & series operation. Low ripple and noise. Fine/coarse adjustments for current and voltage. Large analog current and voltage meters. Power required 115 V 50/60 hz, 19x21x3.5, 48 lbs sh. #DCR40-13B, Used Checked, \$325.00

H V Supply

HIGH VOLTAGE POWER SUPPLY, input 120 VAC 60 Hz. DC outputs: -8000 V 0.25 to 1 ma, +120 V 15 ma, +24 V 1.25 amps, +16 V 450 ma. 4x9.5x4, 17 lbs sh. #GE9TE63V2280G03, Used, \$14.95

Acopian Power Supplies

Acopian Gold Box Series Power Supplies. Fully enclosed with terminals for wire connection. Perforated covers. Each unit is linear regulated and requires 105-125VAC 50-400Hz. All voltages listed are DC. Removed from lightly used equipment. Nice & clean.



2V 6.0A, A2MT600, \$23.00
2V 12.0A, A2MT1200, \$29.00
+/- 5V 2.5A, Dual Track VTD5-250, \$29
5V 5.0A, VRB5G500, \$23.00
5V 5.1A, VA5MT510, \$23.00
5V 6A, VA5MT600, \$23.00

5V 12A, VA5MT1200, \$40.00
5V 17A, VA5H1700, \$35.00
5V 22A, VA5H2200, \$40.00
12V 6A, VA12MT650, \$95.00
±15V 400 ma, Dual Track VTD15-40, \$40
±15V 500mA Dual Track VFD15-50, \$40
15V 2A, VA15NT200, \$65.00
±15V 2.5A, Dual Track VTD15-250, \$90

15v 3.0A, VRB15G300, \$85.00
±15V Dual Track 4.5A, VTD15-450, \$110
18V 2.1A, B18G210, \$29.00
20V 13A, VA20HT1300, \$78.00
24 V 750mA, B24G75, \$23.00
0-50V 1.2A, VA050MX120, \$58.
0-100V 100ma, A0100MX10, \$80.
200v 100ma, B200GT10, \$145.00

5 - 24 VDC Power Supply



COMPACT SWITCHING POWER SUPPLY, 20 selectable outputs: 5 to 24V DC in steps of 1V (from 4.3 to 1.5A) Power: 36W. Get rid of those bulky power-hungry heat-producing adapters. These adapters use state-of-the-art

switching power supplies and feature some major advantages such as: - cooler running - stabilized output - short-circuit and overload protection - compact design - very low idling consumption. Comes with 8 detachable DC plugs. Ideal for notebook computers & personal digital electronic devices. Requires 100 ~ 240V AC. Output plugs: 2.5mm mono, 3.5mm mono, 1.0x3.0mm, 1.35x3.5mm, 1.7x4.0mm, 2.1x5.0mm, 2.5x5.5mm, 1.5x5.5mm. 3.5"x1.8"x1.2", #PSSMV7U, New, \$49.95

Variable Transformers

- - OTHER RATINGS AVAILABLE - -
Tell us your needs!

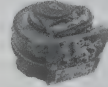
All variable transformers listed below are used good condition unless otherwise specified.

GENERAL ELECTRIC VARIABLE TRANSFORMER, input 120 VAC 60 Hz. Isolated output 0-60 VAC. Maximum current load: 5 amps. Two units wired in series will produce 120 VAC output. Coil not enclosed; dial plate & knob not included. 4.4" dia X 4"H; 6 lbs GE #9T92A1515, New, \$24.00; 2 for \$39.95



POWERSTAT variable transformer, no dials & knobs. 0-30V at 25 amps 60 Hz or 15-0-15V at 35 amps 60 Hz out from 120/240 V input double wound; Actually has two isolated 15V secondaries. Great basis for a 12 or 24 volt power supply. Enclosed, motorized 3 section (3 phase). 12" dia X 30"H, 90 lbs. #DMLW-136BT-3, \$225.00

380 HZ VARIABLE TRANSFORMER, input 120 VAC 380/1000Hz; output 0-120 VAC 380/1000 Hz 13 amps. 7x6.2x3.3, 9 lbs. #GA5065OL \$26.00



Variable transformers listed below are 240VAC 60Hz inputs; not enclosed. Used unless otherwise stated.



Powerstat 9 Amps 0-240V, Input 240V, motorized, perforated sides. 9.1x9.5x10, 30 lbs, #2388-10698, \$100.00

Staco 10 Amps 0-240V, input 240V, motorized, perforated sides. 8.9 x 9.5 x 10.3, 30 lbs sh, #033-7015, \$115.00



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Inverters

12 VDC to 120 VAC 60 HZ INVERTER, rated 200 watts continuous; 600 W surge. Output is squarewave with zero-crossing. Has studs for input & 3-cond outlet. 3 x 7.5 x 4.8, 7 lbs. #RC-12200, New, \$59.50

ROTARY INVERTER, output 115 VAC 400 Hz 1 phase 750 VA from 28 VDC 60 amp input; Leland or =. 12x9.5 x7, 42 lbs sh. #INV-750, Gov't-Record, \$67.00

Motor Generator for GRC-106 Model SS688. Input 27.5VDC 24 Amps. Output 115VAC 60Hz 3.48 Amps. Continuous duty. 3600 RPM. 12x6.5x12, 47 lbs sh., #SS688, Used, \$75.00

400 HZ INVERTER KIT removed from PP-2352; good foundation for 28 VDC to 115 VAC 400 Hz 500 watt 1 phase inverter. Includes oscillator feedback, driver, output, & regulator transformers, two saturable reactors & schematic info. Add other components to suit your power needs; 10 lbs #KIT400HZ-500W, \$58.00

400 HZ SOLID STATE INVERTER KIT will produce 115 V 400 Hz at a current and voltage dependent on the

transformer you use. Supplied parts include, special feedback transformer, resistor/diode boards, two transistors on heatsinks which when combined with your center tapped transformer will produce 400 Hz power. For 12vdc operation use a 20-26 vct transformer. For 28 volt input use a 40-52 vct transformer. With schematic & info. #INV-47, \$23.00

Power units FROM AM-3349 see better pictures at our web site.

DC-AC 400 HZ INVERTER. Input 26 VDC. Designed outputs 120 VPP 400 Hz and 156 VPP 400 Hz. Also 12.6 VPP 400 Hz 600 ma for filaments. Components mounted in irregularly shaped casting. Transformer is not removable. Removed from equipment. With schematic. 2.3x6.6x4.9, 5 lbs sh. #2A6A1, \$30.00

Inverter from AM-3349 which contains the DC - DC supply for the High voltage power supply that powered two 4CX350F tubes to 400 watt PEP. Power input is 24VDC. This supply produced 500 VDC plate and screen grid supply for 8233 driver tube, and screen grid for PA tubes. Also 2400 VDC plate voltage for PA tubes. Transformer and components are mounted to irregularly shaped casting. With schematic. 7x18x6.9, 21 lbs sh. #3349-INV, \$58.00

Dynamotor Supplies

#D-10A Used, \$18.00;
#D-401 Used, \$15.00
#DM-36 Re-new, \$18.00
#DM-53-24, 24V Used w/ base, \$12.00
#DM-53-12, 12V Unused w/ base, \$23.00
#DY-9 or equal from ARC1, \$17.00
#DY-86 from ARN-30, \$18.00;
#DY-107 Used, \$43.00
#PE-98 14V Used, \$35.00;
#PE-133 Unused, \$18.00

#2C4312/B50 Hinge Set f/ DM-21 in BC-312, Used, \$15

NTE Semiconductors

NTE Cross Reference CD, \$5.00

NTE#	DESCRIPTION	PRICE
2V130	MOV 130V RMA	\$1.97
85	T-NPN SI GENERAL PURP AMP TO-92	\$1.02
109	Diode-Germanium Gen Purp 75PRV DO-7	\$1.80
112	DIODE-SI-UHF TV/MIXER DO-7	\$1.57
116	RECTIFIER-SI 600V 1A DO-41	\$0.79
123	T-NPN SI-AF PREAMP/DRIVER TO-39	\$0.70
123A	T-NPN SI-AF/RF AMP TO-18	\$1.59
123AP	T-NPN SI-AF/RF AMP TO-92	\$1.33
125	RECTIFIER-SI 1000V 2.5A DO-41	2/\$0.89
125-10	Pack RECTIFIER-SI 1000V 2.5A DO-41	\$3.49
125-100	Pack RECTIFIER-SI 1000V 2.5A DO-41	\$28.99
128	T-NPN SI-AF PREAMP/DRIVER TO-39	\$2.17
128P	T-NPN SI General Purpose AMP TO-237	\$1.54
129	T-NPN SI-AF OUTPUT TO-39	\$2.40
130	T-NPN SI-AF POWER OUTPUT TO-3	\$4.30
135A	ZD-5.1V 1W DO-41	\$0.66
142A	ZD-12.0V 1W DO-41	\$0.66
145A	ZD-15.0V 1W DO-41	\$0.66
156	RECTIFIER-SI 1000V 3A DO-15	\$1.40
159	T-NPN SI-AF PREAMP DRIVER TO-92	\$1.74
172A	T-NPN SI-DARLINGTON AMP TO-98/92	\$0.98
177	Diode-SI Gen Purp Det 200 PRV DO-35	\$1.19
181	T-NPN SILICON AUDIO AMP TO-3	\$8.50
184	T-NPN SILICON AUDIO PO TO-126	\$2.45
185	T-NPN SILICON AUDIO PO TO-126	\$2.75
199	T-NPN SI-LO NOISE TO-92	\$1.17
253	T-NPN SIL DARL80V HFE-2000 TO-126	\$2.37
261	T-NPN SIL DARL80V TO-220	\$2.66
262	T-NPN SIL DARL80V TO-220	\$2.38
263	T-NPN SIL DARL80V TO-220	\$2.80
287	T-NPN SI-HI VLTG Gen Purp AMP TO92	\$0.88
289A	T-NPN SI-AF POWER OUTPUT TO-92	\$1.56
290A	T-NPN SI-AF POWER OUTPUT TO-92	\$1.62
291	T-NPN SI-POWER OUTPUT/SW TO-220	\$3.79
303-5	Pack HEAT SINK COMP'D 1 GRAM	\$2.47
331	T-NPN SI-AUDIO PO/SWITCH TO-220	\$3.66
373	T-NPN SI-AF DRIVER TO-126	\$1.98
378	T-NPN SI-Power Driver/Output TO-220	\$3.38
399	T-NPN SI-VIDEO OUTPUT GIANT TO-92	\$3.60
422-2	Pack Insulator Kit for TO-220 Package	\$1.96
423-2	pack IC SOCKET 8PIN DIP	\$1.34
458	JFET-N-CHAN GEN PURP AMP TO-92	\$1.99
506	RECTIFIER-SI-HI CUR/FAST SWITCH	\$1.99
519	DIODE-SI FAST SWITCHING DO-35	\$1.19
552	RECTIFIER-SI 600V 1V 1A DO-41	\$1.59
558	RECTIFIER-SI 1500V 1A DO-41	\$1.69
570	D-SI CONTR AVAILANCE 135V TO 180V	\$1.58
74	R-SI 400V 1A FAST RECOVERY DO-41	\$0.62
576	RECTIFIER-SI 400V 5AMP 35NS DO-27	\$1.70
577	RECTIFIER-SI 1000V 5AMP 70NS DO-27	\$4.36

NTE Cross Reference Book, \$4.95

NTE#	DESCRIPTION	PRICE
580	RECTIFIER-600V3A FAST RECORD	\$3.44
588	DIODE-SI 200V 3A ULTRA FAST DO-27	\$1.76
618	DIODE-AM RADIO TUNING DIODE	\$2.99
778A	IC-DUAL OP AMP 8 PIN DIP	\$3.81
941M	IC-FREQ COMP. OP AMP 8-PIN DIP	\$1.07
955M	IC-TIMER/OSCILLATOR 8-PIN DIP	\$1.86
960	IC-POS VR 5V 1A TO-220	\$3.73
966	IC-POS VR 12V 1A TO-220	\$3.93
987	IC-QUAD OP AMP 14-PIN DIP	\$2.48
1866	IC-LED VU Scale Meter Driver 9-PIN SIP	\$2.12
2018	IC-8 CHAN CMOS/TTL DR 18-PIN DIP	\$3.81
2331	T-NPN SIHI VLTG Horiz Switch w/ Damper	\$9.98
2343	T-NPN SI Darl Power Amp/Switch TO-220	\$2.36
2353	T-NPN SI COLOR TV Horiz OUTPUT	\$10.51
2389	MOSFET-PWR N-CHAN HI SPD SW TO-220	\$7.67
2395	MOSFET-PWR N-CHAN HI SPD SW TO-220	\$5.29
3041	Opto Isolator/NPN Transistor Output	\$2.11
4006B	IC-CMOS 18 STAGE 14-PIN DIP	\$3.00
5077A	2 pack ZD-18.0V 1W DO-41	\$1.98
5304	RECTIFIER-SI BRIDGE 400V 1.5A	\$1.73
5322	RECTIFIER-SI BRIDGE 200V 25A	\$4.80
5332	RECTIFIER-SI BRIDGE 600V 1A	\$1.67
5342	RECTIFIER-SI BRIDGE 600V 40A	\$11.99
5344	RECTIFIER-SI BRIDGE 1000V 40A	\$12.99
5800	RECTIFIER-50 PRV 3A Axial Lead DO-201	\$0.51
5801	Rectifier-100 PRV 3A Axial Lead DO-201	\$0.76
5804	Rectifier-400 PRV 3A Axial Lead DO-201	\$1.18
5809	RECT-1000 PRV 3A Axial Lead DO-201	\$2.60
5812	RECTIFIER-100 PRV 6A	\$1.58
5814	RECTIFIER-400 PRV 6A	\$1.84
5815	RECTIFIER-600 PRV 6A	\$2.89
5817	RECTIFIER-1000 PRV 6A	\$3.70
6419	SIDAC 110-125V	\$2.76
7407	IC-TTL Hex Buffer/Driver 14-Pin Dip	\$1.57
8085	THERMAL FUSE 87°C	\$1.60
8090	THERMAL FUSE 93°C	\$1.60
8098	THERMAL FUSE 100°C	\$1.60
8103	THERMAL FUSE 104°C	\$1.60
8118	THERMAL FUSE 121°C	\$1.60
8139	THERMAL FUSE 141°C	\$1.60
8181	THERMAL FUSE 184°C	\$1.60
8213	THERMAL FUSE 215°C	\$1.60
8242	THERMAL FUSE 240°C	\$1.60
75189	IC-DTL QUAD Line Driver 14-PIN DIP	\$2.14
TP0001	Thermo Pad for TO-3 - 5 Pack	\$1.66
TP0002-100	Thermo Pad for TO-66 - 100 Pack, \$17.95	
TP0004	Thermo Pad for TO-126 - 5 Pack	\$0.89
TP0006	Thermo Pad for TO-220 - 5 Pack	\$1.22
TP0007	Thermo Pad for DO-5 - 5 Pack	\$1.34
TP0010	Thermo Pad for TO-3PML - 5 Pack	\$2.20

Regulators / Conditioners

ONEAC power conditioners combine an isolation transformer with power conditioning to protect your equipment. Various power connections are available. Made by ONEAC.

Input 280 VAC 16 amps 50/60 Hz. Output 240/120 VAC 16 amps. Load regulation 2%. 18.3x10.5x10.5, 100 lbs sh. #CC2333, \$95

Input 208 VAC 12.6 amps. Output 240/120 VCT 10.4 amp. 18.3x10.5x10.5, 95 lbs sh. #CS2328-8, \$80.

Input 208 VAC 20.8 amps. Output 240/120 VCT 17.4 amp. 18.3x10.5x10.5, 95 lbs sh. #CS2348-8, \$100.

Input 120 VAC 12 amps. Output 120VAC 12 amps 50/60 Hz. 15.3x8.5x5, 45 lbs sh. #CS1115R, \$115.00

WANG POWER CONDITIONERS, electronic line voltage regulators with full magnetic isolation protects computer & similar equipment from line voltage surge or "sag" damage. Provides "clean" 120 VAC 60 Hz output from inputs of 90 to 135 VAC 60 Hz. Low input shutdown @ 50% of nominal. OVP shutdown @ 12% above max output. 7.8x13x10.4: 1000 VA output with one large LS-20R receptacle; 45 lbs sh. #SC-100A-PC, New, \$225.00

60 Hz - 400 Hz Converter

Static Frequency Converter, Input 120V 60Hz to 117V 400Hz 500 watts single phase. Overload protection. With maintenance manual, power input cable and connector for output. 21x12x15, 120 lbs sh. Unused, #CV-2488, \$330.00

Saber / Astro Charger

Motorola NTN4734A Saber / Astro Battery Desktop Charger. Output 9.5VDC 1.5A. Requires 115 VAC 60Hz. It has been tested and is in good physical condition. With power cord. 6.5x7.6x3.3, 6 lbs sh. #NTN4734A, Used, \$29.95

As above but less power cord. #4734A-NOCORD, Used, \$24.95

Handcrank Generator

G-41 (or equal) Handcrank Generator, used in various military phone equipment such as TA-312. 90V w/ very low amps. Use to replace "dead" generator in antique phone or for remote bell ringer or as "worm shocker". 4"L x 2.5" diameter. 4 lbs sh. #G-41, Used, \$45.00

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

Other Semiconductors

2N3716, \$2.50 2N4126, 5/51.25 2N6292, 2/51.25
2N3739, \$2.50 2N5428, \$1.25 2N6675, \$4.50

REGULATORS

1.2-37V 1.5A out; 0.03% load reg., #LM-117K, \$4.00
30W 3 amp 5V positive regulator, #LM-123K, \$2.25
Negative adjustable regulator, #LM-137K, \$2.25

--- Metal Oxide Varistors "MOV" ---

Part #	VAC	Joules	Amp Pk	Price
S14K60	60	17	4500	\$1.00
S14K130	130	34	4500	\$1.15
S10K200	230	36	2500	\$1.20
S14K175	175	46	4500	\$1.30
S14K275	275	71	4500	\$1.45
250L20	250	72	4500	\$1.50
75UL	275	75	4500	\$1.60
Z510LA40A	510	110	4500	\$1.80
140UL	275	140	6500	\$1.90
S20K510	510	280	6500	\$2.00

---- IsoTop Power MOSFET ----

Power MOSFET, Low gate charge- Fast Switching
Rds on 0.180 ohm, Id continuous 40Amps Pd watts 520,
Ciss(pf)5540 Qg (nC) 468, removed from equipment,
no hardware. Hardware required is metric.
15/16"D x 1 7/16"W x 7/16"H, #APT8018, \$17.00

Rds on 0.150 ohm, Id cont. 38Amps, Pd watts 520,
Ciss(pf)5540 Qg (nC) 242 removed from equipment,
no hardware. Same style as above. #APT6015, \$16.75

Rectifiers

1 AMP 50 PIV, #1N4001, 20/\$1.20
1 Amp 400 PIV, #1N4004, 15/\$1.20;
1 Amp 1000 PIV, #1N4007, 10/\$1.20
12A 100V, #1N3890, 4 for \$3.50
20 Amp, 100PIV, #1N249B, \$1.25
35A 100V, #1N1184, Used, \$1.50
200 PIV 300 A; 4" tall, #D-R610-0230, Used, \$10.00
RF DIODES: 1N21, \$1.50; 1N23, \$3.00

Motorola MR1265FL Rectifier rated 300 PIV 650 amp;
with hardware. 3.3x2.3x3.3, 3 lbs New, \$21.00

Diode Heatsink Assembly

SILICON CONTROL RECTIFIER
assembly single phase half-wave; GE
#C1411CX5 or equivalent. Rating
approx 500 V 35 amps. 7x6.3x5, 4 lbs
sh. #KS-19576L1, Used, \$7.95

Power Heatsink with
giant diode. We approximate the
diode to be at least 100 amps.
Heatsink 6x4x3, #PWR-HS, Used, \$8

POWER HEATSINK with SCR
Westinghouse T600121504BT.
This series is 1.2KV. Could
not find specs but it should be
at least 125 Amps. Also, diode
IR 150K120A 1.2KV 150 Amps MOV V510PA80C. No
specs on this but it is large. Heatsink 7.75" x 6" x 3",
8 lbs #T600121504BT, \$14.95

Heatsinks

Heat Sink Bonanza!!! Get 10
pounds of various heatsinks in
different shapes & sizes with or
without diodes & semiconductors.
#HEAT-10GB, \$12.00

As above but 25 pounds. #HEAT-25GB, \$23.00

1.75" square Heatsink for one TO-3. Has 4
mounting holes. #680-75A, Unused, \$1.50

Heatsink for one TO-3. 1.9" x
1.4", #THM-6013, Unused, \$1.25

3x4.5x1.3 for two TO-36, #2T34513, \$1.50 ea

HEATSINK, 5x3x1.6; drilled for 3 large stud rectifiers
(1" dia recesses), #3D528-8, \$2.50

AC Fans

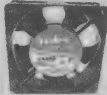


5-BLADE COOLING FAN, 4.6"
dia rotation; no enclosure.
Mounting bracket hole centers
5.9" apart. 115 VAC 60 Hz. 2
lbs shipping. Mfg by Airtrol.
#11-2100, New, \$5.95

AXIAL FANS, 4.7" sq X 1.5" thick; 115 V 60 Hz.

5-BLADE in metal frame; 18 W.
Various mfg. #FN-5U, Used, \$10.95

5-BLADE as above except .11 amp,
#TA450S, Unused, \$16.00



6 Fan Panel



17.3" W X 10.5" panel frame
has six high output Torin
TA450S (or =) 4.6" square
3-blade metal-framed fans.
Each fan rated 65 CFM and
requires 115 VAC 50-60 Hz

0.11 amps; 12 lbs. #6F-PNL, Used-excellent, \$46.00

DC Fans

Mini BOXER 12 VDC FAN, 0.13 amp; 3.6" sq X 1".
#3610NL, New, \$12.00



PANAFLO MINIATURE 12 VDC
FAN 2.3" sq.
#FBP-068-12L, New, \$10.00

AXIAL FAN, 4 3/4" square X 1 1/2" thick; 12VDC
0.5amps 6 watts. 3-BLADE, Unused,
#12B1NDNX, \$15.00

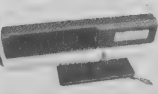
PAPST 18 VDC 2 w / 30 VDC 3 W FAN 9-blades;
3.5" sq X 1" deep. #3124F, New, \$11.00

CENTAUR 24 VDC AXIAL FAN, 11
watts but operates well at 12 VDC.
4.7" sqx 1.5" D metal frame with 5-
blade plastic fan; 2 lbs sh.
#CND24K4-601, Unused, \$10.95



SUNON 24 VDC FAN, 6 watts. 4.7" sq x 1.2" deep
plastic frame with 5 blades. Metal guards on each
side. #KDE2412, Unused, \$12.00

Hupp Vehicle Fan



12 VDC HUPP FAN with
oscillating grill designed for
use in cars, trucks, buses,
RV's, etc where "extra" air
movement is desired. Plugs
into vehicle cigarette lighter and mounts on dash-
board or other flat surface. White plastic enclosure
has black grill and pivots on mount to adjust angle.
Includes 4 ft cord and brackets. 5 x 9 x 3.4, 4 lbs.
#HUPP-200-14, New, \$14; 3 for \$35.00

IC Sockets

LOW PROFILE

16 PIN, #ICS-16-LP, 12 for \$1.00
20 PIN, #ICS-20-LP, 10 for \$1.00
22 PIN, #ICS-22-LP, 6 for \$1.00
24 PIN, #ICS-24-LP, 6 for \$1.00

STANDARD

24 PIN, #ICS-24-S, 2 for \$1.00
28 PIN, #ICS-28-S, 2 for \$1.20
40 PIN, #ICS-40-S, \$1.00 each

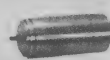
WIRE WRAP

14 PIN, #ICS-14-WW, 6 for \$2.00
18 PIN, #ICS-18-WW, 5 for \$2.00

Selsyns & Synchros

CONTROL TRANSFORMER 90/55 V 60 Hz;
3.6"Lx2" dia. 2 lbs. sh. #1HCT-MKII, Used, \$23.00

RECEIVER, 115 VAC 400Hz, #23TR4, used, \$12.00



TACHOMETER GENERATOR,
motor 265 V 400 Hz 2 phase:
generator 18 V 400 Hz
0.3V/1000 RPM. No load speed
10000 RPM. 2 1/8" Lx1" dia 3/16"Lx1/8" dia shaft.
#TACH-SEL-MOD, \$10.00

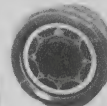
PHASE SHIFTER, unsymmetrical resolver; rotor 1
phase 5 V 30 Hz. stator 2 phase 5 V 30 Hz. 1.4"
dia x 2"L. #PS-17-E-1, used, \$12.00

AY-1 AUTOSYN as used in I-81/ I-82 indicators;
2 lbs sh. #AY-1, \$9.00

UNITED STATES NAVY SYNCHROS, Description
and Operation, a copy of Publication #OP 1303
printed April 1958; 100 + page primer about sel-
syn/synchro theory and types. #BK-USNS, \$15.00

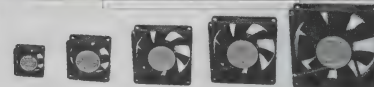
Compass Indicators

3" DIA 0-360 deg-ree RADIO
COMPASS INDICATOR, adapt-
able for wind direction &
antenna position use; 5
degree increments, 2 lbs ship-
ping. #I-81, Used, \$16.00
Connector for I-81, #CONN-I81, \$10



SPERRY MARINE INDICATOR
MARK XX MOD.2, part of ship-
board gyrocompass repeater.
Has 8" dia 360 degree scale in
1" increments under glass;
uses two Size-5 115 VAC 60
Hz selsyn transmitters. One
drives inner directional indica-
tor; second outer degree scale. With 7 ft cable &
special connector; 10" dia X 8.5"D; 45 lbs sh.
#IN-SPERRY, Unused, \$150.00

12VDC Fans



12VDC DC Fans with sleeve type bearing. New,
1.6"x1.6"x0.48", 3CFM, #BSS12/4LC, \$4.80
2.4"x2.4"x1.0", 11CFM, #BSS12/6LC, \$6.00
3.1"x3.1"x1.0", 15CFM, #BSS12/8LC, \$5.40
3.6"x3.6"x1.0", 22CFM, #BSS12/92LC, \$5.60
4.7"x4.7"x1.0", 44CFM, #BLS12LC, \$11.95

Blowers

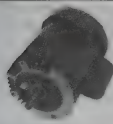
Blower from T-368 transmitter. Inlet is 2.2".
Outlet is 1.6" x 1.4". Motor is rated 1/50 Hp; IPH
0.3 amps; 115V 60Hz; 3300 RPM. Needs 4 or 5
MFD Capacitor. 6 lbs sh. #BLO-T368, \$35.00

Blower from Howard
Industries. Inlet is 1.5".
Outlet is 1.3" x 1.2". Motor
is rated .003 HP; 16 watt;
115V 60Hz. 4 lbs sh.
#12TS297, \$15.95



MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

AC Motors



A.O. Smith AC Motor 1725
RPM 1/2 HP 115/230 VAC 60 Hz
Single Phase Input, 8.7/4.3
Amps. Shaft 2" Lx5/8" dia with
keyway. O/a 11x8x8.5, 14 lbs
sh. #44450, Unused, \$150.00



GENERAL ELECTRIC REVERSIBLE FAN
MOTOR, ball-bearing 115 VAC 60 Hz 1
amp 225 RPM motor. Use with fan blades
unless cooled by other means. Has
mount flanges and 5 mf capacitor;
4.5" Lx5.5" dia + 1.5" L x5/8" dia hollow
shaft, 11 lb #5KCP39EGH210, new, \$12.00; 3 / \$20.

BODINE AC GEARHEAD
MOTOR 200 RPM 1/7 HP 35
in/lb torque, counter-clock-
wise rotation; 115 VAC 60
Hz input. Shaft 1.3" Lx
5/8" dia w/ 3/16" square key.
O/a 8.5" Lx5.6" dia; 14 lbs sh.
#ECCI-35E200, used, \$32.95



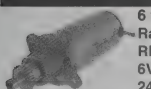
240 RPM 115 V 60 Hz GEAR
MOTOR for intermittent use;
starts @ 32 V approx 200
RPM. Increased volts
increases torque. Gearhead
extends 2.8" beyond motor; 1.1" Lx1/4" dia shaft.
Motor 2.8x2.8x2.4 + 5/8" x3/16" dia shaft for fan on
rear, 3 lbs sh. #MOL-2460, unused, \$6.95

Ametek Shop Vac Motor. This is the
very high speed motor used in some
shop vacuums. Unit as pictured, motor
only with small cooling blades. Shaft
approx .5 inch long, 5/16 diameter. 5.3x4.6x4.6, 5 lbs
sh. #17749-00, Unused, \$12.95; 3 for 22.00

115 V AC-DC MOTOR, starts at 25 VDC, runs CW
approx 7000 RPM 1/8 HP. 2.3x3x4.5 + 1.5" Lx0.4" dia
spiro shaft; 3 lbs sh. #AC-DC-H02, \$4.00

PRINTER MOTOR ASSEMBLY, 24 VAC 60
Hz geared to about 4 RPM; can be wired
for clockwise or CCW rotation. 2.8x2.5"
dia motor on 3.8" sq metal plate; 2#. #MIZ-M0375R,
used, \$5.00; 3 for \$12.00

DC Motors



6 to 24VDC Gear Motor by Globe.
Rated at 54 RPM at 24VDC; 23
RPM at 12VDC; and 11 RPM at
6VDC. Originally designed for
24VDC. Removed from the AM-
3349 amplifier. 1/4" diameter shaft x 3/8" long. O/a
4.2x2x1.6, 3 lbs sh. #5A2871, Used, \$21.95

DC MOTOR, operates over 10-15 VDC
100 ma 2375-2425 RPM with governor.
Shaft 5/16" L x 1/16" dia; o/a 2.9x1.1. #AST-GK26, \$10

MULTI-SPEED 24 VDC PM MOTOR
can be wired for 11500 RPM 0.012
HP 0.7 amp or 3000 RPM 0.033 HP
2.3 amp operation; motor starts to
turn at 9 VDC and is reversible. 6" x2.3" dia with 3.6"
dia collar; geared shaft 0.6x0.4" dia. 3 lbs. Sperry
mfg. #2960031, used, \$10.95

24VDC PM Motor, will run from 6 to 30VDC at
approximately 200 RPM per 6V. 5/8" dia.
shaft is 2" L one end, 5/8" L on other. 10" L x
3/8" Dia., 16 lbs. #DH-4000-AD7, Used, \$48.00

24-29VDC Motor by Globe Industries. No
load ratings 60 RPM and 0.5 amp. Has
removable cam on shaft. 1/4" dia. shaft.
5x1.5x1.5, 2 lbs sh. Used, #C5A1054, \$17.95

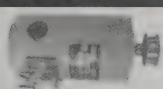
27VDC 2.4 Amp 3600RPM 1/30 HP Motor
by Delco. 6.5x2.9x3, 1/4" diameter shaft.
6 lbs sh. #A7155, Unused, \$5.95

Globe 27 VDC Mini-PM Motor, p/o
Collins 618T P-A; splined shaft 1/4" L x
1/8" dia; o/a 1.7" Lx0.9" dia. #41A205, used, \$7.50
GLOBE 27 VDC 1/100 HP MOTORS, 2.5" Lx1.3" DIA
11000 RPM, p/o ARC-45, #C-25A686, used, \$10.00

JOHN OSTER SERIES MOTOR, 27
VDC 1/100 HP 7000 RPM. 3" Lx2" dia
+ 1" L x 1/4" dia shaft; 2 lbs sh.
#C2BP1A, Unused, \$5.00

28VDC 1.1 Amp Motor by John Oster
Mfg. 12000 RPM. 1 oz. in. torque.
3/16" diameter shaft. o/a 4.8x2.3x3.3,
3 lbs #BL-2-IS, Used, \$9.50; 3 / \$25

15 degree 4-PHASE VR STEP SERVO, 5
ohms 1.5 A; 28 VDC input pulse 3/4x 1/4" dia
shaft; o/a 3x3 1/4x3, 2 lbs. sh. Made in
Canada; removed from equipment. #20M34C1, \$12.00



NORTHFIELD ELECTRIC or
HAMILTON BEACH, 28.5VDC,
5800 RPM motor. 4 amp with
1/15 HP. 1/4" dia shaft with
removable gear x 1/2" long.
o/a 4" x 2.3", 3 lbs, #ALC-1000, Used, \$13.95
As above but 1/33HP, 3000RPM, 2.5A, #AWC-1000, \$12

15 DEGREE STEPPER MOTOR
from printer; requires +9 to +40
VDC. High speed & performance w/ driver circuit
info. 1x1.3" dia shaft; o/a 5.8" Lx1.6" dia, 2 lbs sh.
2 ohm field, #RBM-2-62, \$15.00
4 ohm, #RBM-4-62, \$18; 5.8 ohm, #RBM-6-62, \$20

Magnetek Variable Speed 3/4 HP DC
Motor. 90 VDC 10 Amps 3450 RPM.
Rated for CCW rotation comm end. 11.3
x4.9 dia. 22 lbs #22254200, Unused, \$170

AC Capacitors

5 mf 220 V 1.8" dia x4.5; cylind. #AC-5-220, \$2.50
7.5 mf 260 V, 2.8x2x1.3, #AC-7.5-260, \$2.50
3.5 mf 330 V 1.3x2x1.2; #AC-3.5-330, \$3.00
15 mf 330 V, 2.2x2.9x4; #AC-15-330, \$4.25
2.5 mf 360 V 1.2x2x2.6; #AC-2.5-360, \$3.50
3 mf 370 V 1.3x2x2.7; #AC-3-370, \$3.50
10 mf 370 V, 2.8x3x1.8; #AC-10-370, \$4.50
4 mf 380 V 1.3x2x4; #AC-A-380, \$4.00
7.5 mf 480 V 1.6x2.6x4.6; #AC-7.5-480, \$4.75
21 mf 525 V 1.9x3.5x6.7; #AC-21-525, \$8.00

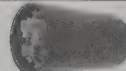
Transmitting Mica

G-SERIES TRANSMITTING CAPACITORS, used-good
or unused as available.

G-1-type, 2.3" H x 2.8" dia; 3 lb \$7.50					
KV	MFD	Part#	KV	MFD	Part#
1.0	0.04	1TM-04	6.0	0.0001	1TM-0001
1.5	0.08	1TM-08	6.0	0.0002	1TM-0002
1.5	0.09	1TM-09	6.0	0.00024	1TM-00024
1.5	0.039	1TM-039	6.0	0.003	1TM-003
G2, 3.5" Hx3" dia, \$12.00					
KV	MFD	Part#			
20.0	0.00005	2TM-00005			
G3, 4" H x5" dia, \$18.00					
KV	MFD	Part#	KV	MFD	Part#
20.0	0.00015	3TM-00015	10.0	0.00015	3TM-00015



Motor Start/Run Caps



MOTOR START AC ELECTROLYTIC. New not surplus.

110/125 volt
21-25mfd. #MSC125V21, \$2.98
124-149mfd. #MSC125V124, \$3.48
161-193mfd. #MSC125V161, \$3.69
189-227mfd. #MSC125V189, \$3.88
216-259mfd. #MSC125V216, \$4.15
270-324mfd. #MSC125V270, \$4.52
590-708mfd. #MSC125V590, \$7.73

220/250 volt
21-25mfd. #MSC250V21, \$3.69
30-36mfd. #MSC250V30, \$3.91
53-64mfd. #MSC250V53, \$4.83



MOTOR RUN AC METALIZED. New not surplus.

370VAC
2mfd. #MRC370V2, \$5.90
4mfd. #MRC370V4, \$6.46
5mfd. #MRC370V5, \$6.68
7.5mfd. #MRC370V7R5, \$7.41
10mfd. #MRC370V10, \$8.05
15mfd. #MRC370V15, \$13.68
25mfd. #MRC370V25, \$16.38

440VAC
10mfd. #MRC440V10, \$11.99
20mfd. #MRC440V20, \$18.65
25mfd. #MRC440V25, \$20.85

RF Capacitors

Centralab 850- TYPE "doorknob" capaci-
tors, 7.5KV, 0.5" H x0.8" di; Used, \$7.00



#850-(specify pf),
10, 12, 25, 28, 40, 47, 50, 57, 63, 67, 75 pf

1200pf 5KV from Ceramite, epoxy make, same size as
above. #CERA-1200, \$7

TYPE 857: 15KV, 40 or 50pf,
#857-(specify pf), \$12.00

50pf 15KV from HEC type HT57, same size & style
as Cent. 857, #HT57, \$12

Centralab 858 Doorknob Capacitor 1000pf 5KV.
Minor chips but still usable. #858-1000, \$10.00

25pf 5KV from HEC type MT53, axial leads, #MT53,
Unused, \$6.00

Brown Mica

JAN CM-size 1.8" x1.6". Used, \$1.50:

MFD	WVDC	CM	Part #
.02	600	55	BM-02
.033	600	55	BM-033
.005	1200	55	BM-005

CM	MFD	WVDC	Part #	Price
55	.003	1200	BM55-0003,	\$3.00
65	.0062	2500	BM65-0062,	\$4.00



F1L-size MICA, 2.8x1.5x1:

MFD	WVDC	Part #	Price
0.006	2500	BM1-006	\$4.75
0.0001	3000	BM1-0001	\$4.75
0.0007	3000	BM1-0007	\$4.75

F3L 0.007mf 500VAC, #BM3-007, \$8.75

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

Electrolytic Axial

All the Electrolytic Capacitors listed below are axial lead and are new unless otherwise mentioned.

Less than 50 volts

mfd	part #	price	4-9	10+
50mf	16V ELE-50-16	4/\$1.00	\$0.25	\$0.23
100mf	16V PC Mt, #ELE-100-16	4/\$1.00		
6800	ELE-6800-16	2/\$0.70	\$0.25	\$0.23
5mf	35V ELE-5-35	2/\$0.70	\$0.25	\$0.23

50 volts

mfd	part #	price	4-9	10+
1	NEH10M50AA	3/\$1.20	\$0.39	\$0.34
2.2	NEH2.2M50AA	3/\$1.20	\$0.39	\$0.34
4.7	NEH4.7M50AA	3/\$1.20	\$0.39	\$0.34
10	NEH10M50BA	3/\$1.30	\$0.42	\$0.37
22	NEH22M50BB	2/\$1.20	\$0.58	\$0.54
33	NEH33M50CB	2/\$1.30	\$0.62	\$0.58
47	NEH47M50CB	2/\$1.45	\$0.70	\$0.66
100	NEH100M50CC	1/\$0.97	\$0.90	
150	NEH150M50D	1/\$1.29	\$1.25	\$1.18
220	NEH220M50DD	1/\$1.29	\$1.25	\$1.18
470	NEH470M50EE	1/\$1.69	\$1.65	\$1.56
1000	NEH1000M50FF	\$2.62	\$2.55	\$2.41
2200	NEH2200M50GG	\$4.84	\$4.71	\$4.45
4700	NEH4700M50JB	\$8.48	\$8.25	\$7.81

63 volts

mfd	part #	price	4-9	10+
1500	ELE-1500-63	2/\$1.20	\$0.55	\$0.50

160 volts

mfd	part #	price	4-9	10+
10	C-ET110-160	\$1.12	\$1.07	\$0.99
22	C-ET22-160	\$1.52	\$1.47	\$1.38
47	C-ET47-160	\$2.05	\$1.98	\$1.84
100	C-ET100-160	\$2.24	\$2.15	\$1.99
220	C-ET220-160	\$2.62	\$2.52	\$2.35

200 volts

mfd	part #	price	4-9	10+
1	ELE-1-200	2/\$1.20	\$0.55	\$0.50

350 volts

mfd	part #	price	4-9	10+
10	MB-10-350	\$1.20	\$1.13	\$1.00
22	MB-22-350	\$1.80	\$1.70	\$1.50
33	MB-33-350	\$2.59	\$2.39	\$2.19
47	MB-47-350	\$2.60	\$2.40	\$2.20
100	C-ET100-350	\$4.18	\$4.02	\$3.74
220	MB-220-350	\$4.19	\$4.03	\$3.75

450 volts

mfd	part #	price	4-9	10+
10	MB-10-450	\$1.27	\$1.19	\$1.10
22	MB-22-450	\$2.70	\$2.50	\$2.30
47	MB-47-450	\$2.95	\$2.75	\$2.50
47mf	450V PC Mt, #E-47-450, \$2 ea; 10/\$10			
100	C-ET100-450	\$6.18	\$5.99	\$5.53
150mf	450V Snap Mt, #ELE-150-450, \$3.00			

Computer Grade

MFD	Volts	Size	Part#	Price
23,000	7	5.5x1.5	CGC-7	\$1.00
90,000	10	6x3	CGC-10	\$1.50
175,000	15	5.5x3	CGC-15	\$2.00
18,000	19	4.5x1.5	CGC-19	\$2.50
72,000	25	6x3	CGC-25	\$3.00
110,000	25	5.5x3	CGC-110000	\$3.50
25,000	35	4x2.5	CGC-35	\$2.50
6100	40	5.8x1.3	CGC-40	\$2.50
9500	40	3x2.5	CGC-9500	\$3.00
80,000	40	5.5x3	CGC-80000	\$3.75
4900	50	3.5x1.5	CGC-50	\$2.50
15,000	50	4x2.5	CGC-15000	\$3.50
3500	55	4x3	CGC-55	\$1.75
1400	150	4x1.75	CGC-150	\$6.00
1000	200	3.4x1.75	CGC-1000	\$10.00
770	200	4.7x1.3	CGC-200	\$16.00
6000	250	4.5x1.5	CGC-250	\$18.00
1500	350	4.5x2.5	CGC-350	\$23.00

Buy 5 or more one type - take 20% off

CLAMP for computer grades:

2" diameter, #CL-2, 3 for \$2.50

2.5" diameter, #CL-2.5, 3 for \$2.75

Orange Coating

All the Xicon Polypropylene (Orange Coating type) Capacitors listed below are in new condition.

MFD	Part#	Price	4-9 pcs	10&up
.001	OMB001	2/\$1.00	\$0.45	\$0.39
.0022	OMB0022	2/\$1.00	\$0.45	\$0.39
.0047	OMB0047	2/\$1.00	\$0.45	\$0.39
.0056	OMB0056	2/\$1.00	\$0.45	\$0.39
.0068	OMB0068	2/\$1.00	\$0.45	\$0.39
.0082	OMB0082	2/\$1.00	\$0.45	\$0.39
.01	OMB01	2/\$1.00	\$0.45	\$0.39
.02	OMB022	2/\$1.00	\$0.45	\$0.39
.033	OMB033	2/\$1.00	\$0.45	\$0.39
.047	OMB047	2/\$1.00	\$0.69	\$0.59
.056	OMB056	2/\$1.00	\$0.69	\$0.59
.068	OMB068	2/\$1.00	\$0.69	\$0.59
.082	OMB082	2/\$1.00	\$0.69	\$0.59
.1	OMB1	2/\$1.00	\$0.69	\$0.59
.22	OMB2	1/\$0.95	\$0.95	\$0.85
.47	OMB47	1/\$1.95	\$1.75	\$1.50
1.0	OMB1MFD	1/\$1.96	\$1.76	\$1.51

0.33mf 100V orange drop, #OR-33, 2/1

0.68mf 100V orange drop, #OR-68, \$0.95

1KV Disc Capacitors

Part#	Price	10-24	25+
3.3pf 9003D3	5/\$0.99	\$0.18	\$0.16
5.0pf 9005D0	5/\$0.99	\$0.18	\$0.16
10pf 9010D	5/\$0.99	\$0.18	\$0.16
20pf 9020D	5/\$0.99	\$0.18	\$0.16
47pf 9047D	5/\$0.99	\$0.18	\$0.16
68pf 9068D	5/\$0.99	\$0.18	\$0.16
100pf DSC-100	7/\$1.00	100/\$9.00	
120pf 90112	5/\$0.99	\$0.18	\$0.16
220pf 90122	5/\$0.99	\$0.18	\$0.16
330pf 90133	5/\$0.99	\$0.18	\$0.16
470pf 90147	5/\$0.99	\$0.18	\$0.16
680pf 90168	5/\$0.99	\$0.18	\$0.16
900pf 90182	5/\$0.99	\$0.18	\$0.16
1000pf 90210	3/\$0.99	\$0.29	\$0.19
2200pf 90222	3/\$0.99	\$0.29	\$0.19
4700pf 90247	3/\$0.99	\$0.29	\$0.19
7500pf 90275	3/\$0.99	\$0.29	\$0.19
0.01µf 90310	3/\$0.99	\$0.29	\$0.19
0.050µf 90350	\$0.99	\$0.94	\$0.88
0.10µf 90410	\$1.29	\$1.22	\$1.14

90pf 3KV Disc Capacitor, 8 for \$2.00

90pf 5KV Disc Capacitor, 7 for \$2.00

180pf 5KV Disc Capacitor, 7 for \$2.00

250pf 3KV Disc Capacitor, 8 for \$2.00

1500pf 10KV Giant Disc Capacitor,

\$3.50; 4 for \$10.00

0.1mf 25V Disc Capacitor, 10 for \$2.

Multi-Section Caps

The Multi-Section Capacitors listed below are unused by various mfg. To see a further listing of multi-section caps go to fairradio.com

300-1000-80MFD at 150-150-150 Volts

2.5X1.3 #MULT-300, \$7.75

75-75MFD at 300-300 Volts 2.5X1.3

#MULT-75, \$8.25

Feed-Thru Suppression Caps,

ERIE 1202 1000 pf 1KV. Used,

#1202-1000, 3/\$2.75

Metalized Polyester

All the 630V Metalized Polyester Tubular Capacitors listed below are new.

MFD	Part#	Price	4-9 pcs	10&up
.001	YMB001	2/\$1.50	\$0.69	\$0.59
.0022	YMB0022	2/\$1.50	\$0.69	\$0.59
.0033	PY0033	2/\$1.50	\$0.69	\$0.59
.0047	YMB0047	2/\$1.50	\$0.69	\$0.59
.0056	YMB0056	2/\$1.50	\$0.69	\$0.59
.0068	YMB0068	2/\$1.50	\$0.69	\$0.59
.01	YMB01	2/\$1.70	\$0.79	\$0.69
.022	YMB022	2/\$1.70	\$0.79	\$0.69
.033	YMB033	2/\$1.70	\$0.79	\$0.69
.047	YMB047	2/\$1.70	\$0.79	\$0.69
.056	YMB056	2/\$1.70	\$0.79	\$0.69
.068	YMB068	2/\$1.70	\$0.79	\$0.69
.1	YMB1	1/\$1.25	\$1.15	\$1.05
.22	YMB22	1/\$1.25	\$1.15	\$1.05
.47	YMB47	1/\$1.25	\$1.15	\$1.05
.68	PY68	1/\$1.95	\$1.80	\$1.60
1.0	YMB1MFD	1/\$1.96	\$1.81	\$1.61

Mylar

The MLR series is a range of radial lead non-polarized polyester film (Mylar) capacitors dipped in a hard epoxy coating material to provide excellent protection against moisture. These devices are intended for general purpose DC applications.

mfd	part #	price	4-9	10+
.0022	MLR22K100	3/\$1.00	\$0.29	\$0.22
.0047	MLR47K100	3/\$1.00	\$0.29	\$0.22
.01	MLR103K100	3/\$1.00	\$0.29	\$0.22
.022	MLR22K300	3/\$1.00	\$0.29	\$0.22
.047	MLR47K300	3/\$1.19	\$0.36	\$0.29
.1	MLR104K100	2/\$1.00	\$0.46	\$0.39
.22	MLR22K400	2/\$1.39	\$0.65	\$0.59
.33	MLR33K400	1/\$0.99	\$0.89	\$0.76
.47	MLR47K400	1/\$1.05	\$0.99	\$0.92

630 volt

mfd	part #	price	4-9	10+
.001	MLR1022K630	2/\$1.19	\$0.56	\$0.52
.01	MLR103K630	2/\$1.00	\$0.46	\$0.39
.022	MLR22K630	2/\$1.00	\$0.46	\$0.39
.047	MLR47K630	2/\$1.19	\$0.55	\$0.49
.1	MLR104K630	2/\$1.39	\$0.65	\$0.59
.47	MLR47K630	1/\$1.99	\$1.89	\$1.79

HV Capacitors

0.01 mfd 10,000 volts Made by Dearborn. 5/8" diameter x 2 1/4", #430P, New, \$4. each; 3 / \$10.00

0.1mf 3500VDC. Single terminal (Case Ground). Made by Aerovox. 4.2 x 1.3, #3514D, Unused, \$4.00

Energy Storage Capacitors Non-PCB, 88MF 1.2KVDC, w/ minor dents 10"Hx 4.5"

Wx3.5"D, #HVC-88, 11 lbs Used, \$22.00

5MFD 1KVDC, 6"Hx2.8"Wx1.5"D, Unused, #HVC-5, \$7.50

0.4 MFD 100,000 VDC Capacitor, A HV experimenter's dream! 41" long x 8.7" dia. 0.4 MF 100,000 VDC capacitor removed from an exotic government project! Non PCB. 1.4" L x .5" dia #18 stud ends, 97 lbs sh. #100MV04, \$350.

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0.4 MFD 100,000 VDC Capacitor, A HV experimenter's dream! 41" long x 8.7" dia. 0.4 MF 100,000 VDC capacitor removed from an exotic government project! Non PCB. 1.4" L x .5" dia #18 stud ends, 97 lbs sh. #100MV04, \$350.

Vacuum Capacitors

All Vacuum Variables listed below are 10-1000pf at 5KV and have 1/2" dia. shafts. Overall size 7.5" long x 2.8" diameter. Used high pot tested. 5 lbs sh. Energy Lab, Ceramic, #EL5-1000-5, \$210

Amperex, Ceramic, #CVC10/1K-5KV, \$230

Ceramic Vacuum Variable Capacitors. Each capacitor has a 3/8" dia. shaft with removable pin. Used.

300pf at 10KV, 3 5/8"D x 8 1/2"H, 7 lbs sh.

#CVDD-300-10, \$275.00

200pf at 10KV, 3 5/8"D x 8 1/2"H, 7 lbs. #CVDD-200-10, \$275.00

500pf at 15KV, 3 1/4"D x 7 1/2"H, 1/2" dia. shaft. 7 lbs. #CVDD-500-15N613, \$360.00

1500pf at 10KV, 5.5"D x 9"H, 1/2" dia shaft, 14 lbs, #CVDB-1500-10, \$475.00

As above but 2300pf #CVDB-2300-10, \$550

3.5-7 pf 35 KV 4.3"Lx3" dia, 5 lbs sh. UNUSED, #CVA-7-5, \$85.00

FIXED VACUUM CAPACITORS various mfg; used:

3pf 25 KV cer. 3.3Lx0.8, #CY-3-25, \$14

25pf 10 KV, 2.6Lx1.5, #JCS-2A-10, \$18

12pf 20KV; 6.5Lx2.8, #VC-12-20, \$17

12pf 30KV; 6.5Lx2.2, #CLF1-12-0030, \$27

Air Variable

5 Gang Air Variable Capacitor covering 20 to 425pf per gang with a .02" air gap. Has a 3/8" diameter shaft x 1/4" long. Overall 6.4x

3.2x2.8, 4 lbs sh. #5G-425, \$19.00

Same ratings as above except has a removable right angle drive which accepts a MC-124 tuning spline. Also has a longer shaft. With the right angle drive removed the shaft is 3/8" diameter with 1" length.

#5G-425-GR, \$20.00

3 Gang, 4-25pf, 4-20pf, and 3-17pf. Air gap of around 0.03". 1.4"L x 1/8" diameter shaft. o/a

4x1.4x1.3, 1lbs sh

Potentiometers

2 ohm Potentiometer. Around 2 watts. Unused, #83-4072, \$3.00

10-TURN PRECISION POTS, 1/4" dia shafts. 100 ohm 2.8"Hx1.8"D. #A-R100-L25,\$8

250 Ohm at 4 watts Linear Resistance Wirewound Potentiometer by Clorostat. 1/4" shaft with screwdriver adjust. #RA30, Unused, \$1.75

Grimes Four Section Potentiometer with knob. 1 K ohm at 2 watt per section. #A-4627, Unused, \$3.50

5 Kohm pot. with switch by PEC. 1/4" dia. shaft. #344832, Unused, \$3.50

5K ohm Potentiometer with a 2 amp 250V Switch. Unused, #344832, \$3.50

7.5K ohm Pot with 3 amp 125V Switch. Unused, #SM-B-180861, \$3.75

Air Variable

25 to 570pf Air Variable Capacitor from 180S1 100 watt Antenna Tuner. Air gap 0.045" spacing. From 180S1. Made by Cardwell. 1/4" diameter shaft. 4.4x2.6x2.3, #C102/180S1, \$59.50

Tuning Capacitor Assembly for RT-66-67-68 transmitters. 6 sections; four 8-64pf, two 8-55pf. Also six 4-23pf trimmers. Dual geared 3/8" diameter shafts; 4.8x4.8x3, 3 lbs sh. #3D9067E6, Unused, \$10.00

--- FM Tuner ---

H-K FM Tuner with AM capacitors, one FET/two transistor oscillator; requires -12V. Shaft 1" L x 1/4" diameter; o/a 3.5x2.3x2.8, 2 lbs sh. Mfg by Alps. #FB13U13, Unused, \$7.95

--TRIMMER CAPACITORS--

with screwdriver adjust shafts:
#C2-8, 2-8pf, 3 / \$2.00
#C4-11, 4-11pf, 3 / \$2.00
#C653/R174, 2-11pf, 3 / \$2.00
#C2-16, 2-15.7pf, 3 / \$2.50
#C103/382, 4-23pf, 3 / \$2.75
#C5-25, 5-25pf, NPO 3 / \$3.00

Sub-mini Piston Trimmer Cap 1.5-4.0pf 500V. By JMC mfg. #7666, Unused, \$6

TRIM CAPACITORS. Screwdriver adjust. These dielectric film trimmers are used on PCBs, e.g. in radios.

Suitable for industrial equipment thanks to their good stability. Rated for 250 volts. New, \$2.29 each.

PE	Dia	Temp. Max.	Part #
5.5-65	0.39"	158F	#TRIM65P
5.5-80	0.39"	185F	#TRIM80P

ALPS 10K ohm potentiometer with a pull on / push off DPST switch. 1/4" diameter shaft. Probably good up to 1/2 watt. Used, #N-800, \$3.50; 4 / \$12

10K ohm Screw Driver Adjust Trim Pot. #90H-103, Unused, \$2

ALPS or = with switch; 5/8" dia + term. Shaft 1/4" dia. \$1.25 each: #POT-10K, 10Kohm; #POT-50K, 50Kohm #POT-100K, 100K ohm

20K ohm Precision Wire Wound General Radio Style Potentiometer. Wattage unknown. Unused, #353-5235, \$5.

25K ohm Variable Resistor / Potentiometer. Wattage unknown. 3/8" dia. shaft. Unused, #3RA8101, \$7.50

100K ohm Potentiometer. Around 1/2 watts. Unused, #CTS-238, \$2.75

2 Mega Ohm at 2 watts Potentiometer by Ohmite. 1/4" shaft. #CU-2052, Unused, \$2.50

Precision Resistors

DALE (or =) POWER RESISTORS metal-type:				
Ohms	Watts	Tol.	Part#	Price
1.96	30	1%	PR-1.96	\$2.50
12	100	5%	PR-12	\$4.00
50	20	3%	PR-50	\$1.50
100	20	1%	PR-100	\$1.50
1370	50	1%	PR-1370	\$3.25

All the resistors below are 3 / \$1.25

Ohms	Watts	Tol.	Part#	Price
1.5	30	5%	PR-1.5	
5	0.33	1%	PR-5	
90	0.50	1%	PR-90	
600	0.25	1%	PR-600	
58K	0.25	1%	PR-58K	
1.04M	0.33	1%	PR-1.04M	

Ohms	Watts	Tol.	Part#	Price
0.33	3	1%	PR-0.33	2/\$1.25
3000	2	1%	PR-3000	2/\$1.25
902K	2	1%	PR-902K	3/\$3.00

Rheostats

First set of numbers after RHEO-prefix is wattage; your choice of ohms is second set. SCD= screwdriver adjust type. Style varies; USED or UNUSED:

#RHEO-25W-(ohms), \$2.50 ea
2, 6-scd, 7, 60, 200,
350-SCD, 400, 450, 500,

#RHEO-D25W-250, Dual 250 ohm, \$4.00
#RHEO-D25W-500, Dual 500 ohm, \$4.00

#RHEO-50W-(ohms), \$3.50 ea
0.5, 4, 5, 8, 15, 18, 22, 100, 200,
225, 300, 350, 375, 600

#RHEO-D50W-16, Dual 16 ohm, \$5.00
#RHEO-D50W-35, Dual 35 ohm, \$5.00

#RHEO-150W-2, 2 ohm, \$4.75

#RHEO-225W-3, 3 ohm, \$5.25

#RHEO-300W-50, 50 ohm, 3 lbs. \$10

Resistors

1/2 Watt to 2 Watt Metal Resistors

1/2 WATT 6 for \$1.00 Ohms Part#	1 WATT 5 for \$1.00 Ohms Part#	2 WATT 5 for \$1.00 Ohms Part#
1 HW1D0	1 HW1D0	1 2W1D0
10 HW010	10 1W010	1.8 2W018
47 HW047	10 1W010	10 2W010
100 HW100	100 1W100	18 2W018
120 HW122	100 1W100	47 2W047
470 HW470	180 1W180	100 2W100
1K HW1K10	300 1W180	1K 2W100
2.2K HW222	510 1W151	2.2K 2W222
4.7K HW4747	1K 1W210	3.9K 2W390
10K HW10K	3.3K 1W233	10K 2W310
47K HW47K	10K 1W310	12K 2W312
100K HW100K	470K 1W447	100K 2W410

POWER WIREWOUND

5 WATT 3 for \$1.00 Ohms Part#	10 WATT up to 1K ohm 3 for \$1.15 Ohms Part#	25 WATT 2 for \$1.59 Ohms Part#
0.1 5W010	1.0 10W1D0	1.0 25W1D0
0.22 5W022	2.0 10W2D0	2.0 25W2D0
0.33 5W033	3.3 10W3D0	2.7 25W2D7
0.47 5W047	3.9 10W3D9	3.9 25W3D9
1.0 5W1D0	5.1 10W5D1	5.1 25W5D1
2.2 5W2D2	6.8 10W6D8	6.8 25W6D8
3.3 5W3D3	8.2 10W8D2	8.2 25W8D2
4.7 5W4D7	10 10W10D	10 25W10D
5 5W5D0	15 10W15D	15 25W15D
7.5 5W7D5	22 10W2D2	22 25W2D2
10 5W010	27 10W2D7	27 25W2D7
22 5W022	47 10W4D7	47 25W4D7
39 5W039	100 10W10D	100 25W10D
47 5W047	150 10W15D	150 25W15D
100 5W100	1K 10W210	27 25W2D7
330 5W330	10 Watt over 1K ohm 2 for \$1.09 Ohms Part#	75 25W075
1K 5W1K	2.2K 10W222	100 25W100
4.7K 5W47K	2.5K 10W255	150 25W150
6.8K 5W68K	4.7K 10W4747	220 25W222
10K 5W10K	10K 10W10K	1K 25W210
18K 5W18K	18K 10W18K	2.2K 25W222

Ohms	Watts	Part#	Price
1	50	RS-1	\$1.25
1.5	3	RS-1.5	5/\$1.25
1.67	35 flat	RS-1.67	3/\$2.50
10	31 Dale	RS-10	2/\$1.25
15	95 Dale	RS-15	\$1.25
22	53 Dale	RS-22	3/\$3.00
160	20	RS-160	5/\$2.50
200	100	RS-200	\$1.20
250	100	RS-250	\$1.35
2000	43	RS-2000	3/\$2.50
3000	68	RS-3000	\$1.25
7100	145	RS-7100	\$2.50
40M	2.5"L x .6"D	RS-40M	\$6.00
80M	6.5"L x .6"D	RS-80M	\$8.00

Cableform Products 30 Megohm resistor. CJC, 30Kv, Ferrule connections. 30 watts, size 10.5 x 1 1/8
#Cableform-30M \$29.00

DALE 70 WATT 5%
6-RESISTOR BANK, two ea 4 & 7 ohm. one ea 6 & 8 ohm; 6"L x 3"H. #RGX70W, \$5.25

--SLIDE RESISTORS--

Ohms	Watts	Part#	Price
4	25 W + 4 fixed	SR-4	\$3.75
15	50	SR-15	\$1.75
20	225	SR-16	\$8.50
50	25	SR-20	\$1.25
100	160	SR-50	\$3.00
100	150	SR-100	\$3.00
500	160	SR-500	\$3.25

Cases & Enclosures

Ideal enclosures for your next project! All items below are black aluminum chassis with dark grey front panels. The top and bottom of each of the units are heatsinked with 1/10" fins. The overall dimension of each unit is 9 5/8" deep x 5" tall. All enclosures have multiple 1/4" diameter holes on the front plate. They differ according to width. Used excellent.

1 15/16" Wide, 3 lbs sh, #ENC-4-2, \$9.00
4 1/8" Wide, 4 lbs sh, #ENC-10-4, \$11.50

Cast aluminum boxes for those RF and other projects where an inexpensive sturdy box is needed. Boxes have various late 1970's transistors and components and circuit boards. Used.

Cast aluminum box. 7.5 x 6.25 x 7.5 has sheet aluminum side panels and male DB9 connector. 2 lbs sh. #BOX68429, \$6.00

Similar to above but has 5 internal compartments separated by cast walls. Four sections each 13/16 x 4 1/8 x 1 1/16 and one section 2 13/16 x 2 3/16 x 1 5/16. 2 lbs. #BOX295C, \$7

Medium cast box 6 1/2 x 4 1/4 x 1 1/2 with provision for mounting circuit board at approx 3/4 inch depth. Two sheet aluminum covers. 3 lbs sh. #BOX641, \$10.00

INSTRUMENT CABINET for HP-test set; adapt to other uses. 7.6"H x 19"Wx9"D x 4"D cover less 1" overlap; three 6"Hx5"W compartments; w/fasteners & strap; 17 lbs sh. #CS-HP3550, used, \$32.00

Steel Ammo Box, ideal for your tools. Inner Dimensions are 3.4 x 10 x 6.5. Hasp fastener on one side and hinged on the other. With rust. Carrying handle. 6 lbs sh. #ENC-AMMO, Used, \$6.00; 6 for \$22.00

Low profile cast aluminum enclosure. Removable top. Has some small holes. 5.8x2.5x1.6, 2 lbs sh. #LP-1 used, \$6.95

15 Degree Slope Enclosure. The base is 18 ga. steel for extra strength. Easy to machine - aluminum top panels are 0.064" thick aluminum. Back is also aluminum. Sides pre-assembled with a two tone grey powder paint finish (base is dark satin gray, slope top is smooth light gray). Comes with four self adhesive rubber feet and required hardware. Hammond Mfg. New, 4.5" W x 6" D x 2.1" Rear Ht x 1.1" Front Ht, 3 lbs sh. #515-0910, \$20.24
7.4" W x 6" D x 3.8" Rear Ht x 2.8" Front Ht, 5 lbs sh. #515-0940, \$23.87
11.7" W x 7.7" D x 2.1" Rear Ht x 1.2" Front Ht, 5 lbs sh. #515-0950, \$29.16

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Enclosures

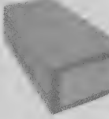


ALUMINUM SEALED DIE-CAST ENCLOSURE. These enclosures provide effective EMI- and RFI-shielding. The mounting holes and the screws

for the lid are outside the sealed area, which prevents moisture and dust from entering the enclosure. New.

2.5" x 2.3" x 1.4", #G104, \$9.20
4.5" x 2.6" x 1.2", #G106, \$12.00
6.7" x 4.8" x 2.2", #G1201, \$29.95
8.7" x 5.7" x 2.2", #G124, \$29.99

Molded Plastic in high-impact ABS, fire-retardant - dark gray. These cases in molded plastic have a two-piece design with a tongue and groove joint



between the top and bottom half. Non-scratch surface with a high-quality finish. Guide slots are provided for vertical PCB mounting and slots make horizontal PCB mounting possible. New.

3.5" x 2.0" x 0.9", #G403, \$4.00
3.5" x 2.0" x 1.3", #G404, \$3.40
4.7" x 2.4" x 1.2", #G407, \$6.40
4.7" x 2.4" x 1.6", #G410, \$7.00
5.9" x 3.1" x 1.8", #G416, \$10.60
7.5" x 3.9" x 2.4", #G421, \$13.80

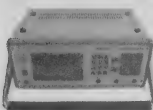
This plastic utility box is molded in impact-resistant ABS and has card guides spaced at intervals of .79" to

allow flexibility in the spacing of the components or the creation of compartments. Guides will accept cards with a max. thickness of .06". New.

3.7" x 1.9" x 1.5", #G1068, \$3.40
5.3" x 3.0" x 2.0", #G1098, \$3.40

These enclosures consist of high-impact ABS (operating temperature -40°F to +212°F). The lid and the base equipped with a tongue and groove sealing system with a neoprene gasket. The mounting holes and the attaching screws are outside the seals, which prevents moisture and dust from entering the enclosure. Internal guide slots allow the vertical mounting of PCB assemblies. The guides on the internal base allow the horizontal mounting of PCBs. New.

2.5" x 2.3" x 1.4", #G302, \$5.20
4.5" x 2.6" x 1.8", #G304, \$8.60
6.7" x 4.8" x 2.2", #G313, \$13.80
10.4" x 7.3" x 4.0", #G378, \$29.98



Aluminum Enclosure by Motorola with 13.5" W x 5.1" H front panel.

Ventilation holes on bottom. Adjustable handle. Less back cover. Overall 10.3" D x 16.3" W x 6" H, 10 lbs sh. Excellent Condition, #TDMA-1000, \$44.50

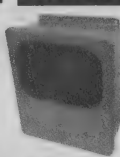
Equipment Glides

Military quality for rack mounting;

2"W x 16.5"L; chassis slides have 19" travel. Load rating approximately 100 lbs; 6 lbs sh.

#GL-1621, used, \$15.00 per pair

Window Enclosure

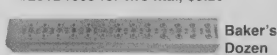


Weather Resistant Enclosure with Window. Great for your outdoor control / monitoring of solar cells, antenna controls, control center for your garden watering system. Cover is hinged & gas-

keted for weather resistance. O.D. 15.5" x 13.4" x 6.5"; I.D. 13.9 x 11.9 x 5.9; Window 9.4 x 6. The window allows you to monitor your circuit if you put readouts behind the window. Made of fiberglass reinforced polyester, Non-metallic. Color - machine gray. Long piano hinge, looks like stainless steel. Stahlin Industrial. 10 lbs sh. #23541412, Unused in box, \$49.50

Crystals

JK02 Ovens for CR-26 xtal. 6 - 24 VAC / DC; plug into octal socket. Less xtal's; Used, #251B1001 for one xtal, \$2.75 #251B1003 for two xtal, \$3.25



Crystal Socket Assembly, 13 ceramic crystal sockets CR-23 style mounted on an aluminum strip. 9"L x 1.2"W x 0.9"H, 2 lbs sh. #CR-23-13, \$7.50

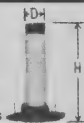
200KHz Crystal CR-2 case. Dimensions w/ pins 1 1/2" x 1 1/16" x 7/16". #CR-2, \$7



200KHz Crystals CR-2D case. Dimensions with pins 1 1/16" x 11/16" x 1/4". #CR-2D, \$6.95

Insulators

Stand-off insulators crows feet type. Brass plated bases and terminals: D= Diameter H=Height M=Mount base holes' center distance ST=Screw terminals CT=Clamp terminals



#B-H3-D1.25-ST3, brown ceramic; M=2.25". Term. cap: 7/8x1 5/8" dia; 2 lbs. \$3.25

#W-H5-D1.25-ST, white; M=2.625". Term cap: 3/8x 1 1/4" dia. 3 lb \$4.25

#B-H5-D1.25-CT, white; M= 2.25". Term cap: 1x1 5/8" dia. 3 lb \$4.50

#B-H7-D1.25-ST, brown, M=2.6", Term cap 1x1 3/4" dia; 3 lbs. \$5.50

Quantity Discounts on above!
10-25 ea (1-type) 20% off;
25% (26-99), 30% (100)

STAND-OFF with CLIP for clip-in resistors or capacitors. 1"H x 0.8" square insulator with clip for .05" dia cap, #NS4W1208, \$2

--- Strain Insulators ---

Brown porcelain insulator 8.5"Lx1.8"H x 1"D with reinforced 0.5" dia hole on ends; 3lbs. #SPI-85181, \$2.39; 2/\$3.50

Brown Egg-Type Porcelain Strain Insulator, 1.3"L x 1"x1" with two 1/4" di holes. Unused, #INS-EGG, \$2.00

Insulators



Insulator, 1 1/2"H x 1" Diameter. Has a 1/4" - 20 thread on each end. #NL522W04, \$1.50

INSULATOR POST for mounting capacitors, coils, etc. 1.7"Hx3/8" sq porcelain; 1/8" di thru-hole near top; base threaded for chassis screw. #IP-1706, \$1.25

2"Hx1" square; two 6/32 threads top and bottom. #NL523W14, \$2.50

MP-48A INSULATOR for WW-2 vehicular spring antenna base; 3.6"Lx2.6" dia, 4 lb. #INS-48A, \$18.00

COLLAR for MP-48A, fits bottom of base, #COLL-48A, \$3.00

Phenolic Insulator from MP-48, #IN-118, \$8.50

PORCELAIN STAND-OFFS, no bases but screw threaded:
#P-4H-75D 4"Hx 0.75" dia; 8-24 threader. \$1.25 ea; 2 / \$2.25
#P-7H-100D 6.8"Hx 1" dia; 10-24 threader. \$2.00 ea;

Large porcelain thru panel insulator. 9/16" diameter center hole. Has 6 threaded mounting holes on outer lip. Overall size is 5 1/4"Dia x 2 3/4"H. No Hardware. #INS-6, Used, \$12

Coil Forms



Small Ceramic Coil Form consists of 35 grooves in a 1.7" space. o/a 3.1"Hx1.1"Dia. #CF-5, \$3.00



Small Ceramic Coil Form consists of 10 grooves in a 0.5" space. o/a 1.7"Hx1"Dia #CF-1, \$2.50



3 pin Plastic Coil Form which fits BC-611. o/a 0.9" dia. x 1.9"H, #CF-3, 2/\$1.25

Coil Form

Assortment has: porcelain inductor core 1 7/8" tall 1 1/8" base has 4 mounting holes. The winding core has 41 grooves for wire 10 holes on flat edge. 3 small porcelain cores with 3 wire grooves. The base has a 6/32 threaded hole. #IND-K1, \$3.25

Inductors & Coils

#C-447 coil for BC-610 xmitter 4.5"L x 4.5" dia; 3 lbs sh. Unused, \$14.



1.25MHz RF choke with ceramic post mount, Overall 2.7" L. #L-RF1.25, \$3.50

400UH RF choke axial lead, #L-RF400, \$1.55; 5 for \$5.50

TELEPHONE PICK UP COIL p/o modem coupler; no info. 5/8x1.8" dia. #403-4, \$1.25

Inductors & Coils



ROLLER INDUCTOR ASSEMBLY with 115 VAC 400 Hz motor drive, 3.4" lg x 1.75 dia coil; 28 turns #18 wire

approx 14 uH with center tap. Designed to resonate antenna to a transceiver's frequency. 4.5x2.8x3.8, 5 lb used #T301/CU-991, \$8.50

ANTENNA LOAD ASSEMBLY from AM-3349/GRC-106, includes C26 1000pf at 5KV vacuum variable capacitor, C27 15-355pf air capacitor, 26 1000pf feed-thru caps, L1 0.5 to 40UH variable inductor, L2 37UH fixed inductor, S1 2-deck 5-position ceramic switch and two Globe or = 24 VDC motors. 5.5 x 9.5 x 5.5, 10 lbs shipping. #3349-02, Used, \$280.00



L5 ROLLER INDUCTOR, 26 turns #18 silvered wire "2Lx1.1" dia coil: 8.4 uH max. 115 V

400 Hz motor drive like above; runs on 26V 60 Hz. Adaptable to direct drive. O/a 6x3x4.75, 3 lb #L5/ARC-58, \$15.00

ROLLER INDUCTOR

KITS includes 4.4" L x 1.5" dia ceramic coil with 40 turns #14 silvered-wire, roller wheel, guide shaft & springs. 3/8" dia shafts have removable pinned gear. End support plates not supplied; 3lbs sh. #L22-PRC-47, 22 uH, \$18.00 #L35-PRC47, 35 uH w/ part slug core \$17 #L40-PRC47, 40 uH w/ full slug core \$17

15 uH Roller Inductor from 180S1 100 watt Antenna Tuner. 3.8" long x 2" diameter coil. Looks like 18 gauge wire. 24 turns. Ceramic end plates. 1/4" diameter shaft. 8.6x3x5.2, #L101/180S1, \$59.50

RF MASTER OSC COILS: pull out of T-22 / ARC-5 7-9 MHz xmitter; #T53/6032, \$4.75

Ceramic 2" Hx1.6" diameter base. #L101/ART13, \$4.75
+++++
FERRITE CORE INDUCTOR PC mount; 7/8x 3/4" dia. #NV243, 123-177 mH, \$2.00

Small Inductor, 1.5 mH, 1 ADC, 5V, 12KHz, 5 ohm DCR, PC mount. #80063, \$2.30; 3 / \$6.00

Inductors



The PI Wound Inductors listed below are enamel coated.

The 2nd number in the part number designates the number of sections.

Part #	L x Dia	uH	L-m	Price	10 pcs
P3FE-1200	.90-.32	1200	50	\$5.00	\$30
P3PE-500	.50-.30	500	50	\$5.00	\$30
P2PE-675	.75-.45	675	200	\$5.00	\$30
P3FS-5800	.90-.50	5800	200	\$3.00	\$15
P3FE-12000	1.00-.42	12000	200	\$5.00	\$30

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Inductors

First letter in part number is the Style: M - Multilayer; S - Single layer; P - Pl wound / number of sections;

Second letter in part number is the Material: P - Phenolic; F - Ferrite;

Third letter in part number is the Coating: C - Coated; S - Shrink covering; E - Enamel wire;

Example: A part number that starts out "MPE" would represent a Multilayer style, a Phenolic form, and an Enamel coating.



Multi Layer Enamel



Multi Layer Coated



Single Layer Enamel



Single Layer Shrink



Wideband



Torroid

MULTI LAYER ENAMEL										
Part #	L x Dia	uH	I - ma	Price	5 pcs	10 pcs	100 pcs	500 pcs	1000 pcs	
MPE-55	.50x.25	55	125	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-65	.50x.25	65	125	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-70	.30x.20	70	125	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-75	.30x.12	75	125	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-85	.30x.20	85	125	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-100	1.40x.40	100	2000	\$2.00	\$8.00	\$14.00	\$60.00	\$60.00	\$60.00	
MPE-107	.30x.20	107	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-110	.30x.15	110	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-122	.38x.25	122	125	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-135	.40x.55	135	300	\$2.00	\$8.00	\$14.00	\$80.00	\$80.00	\$80.00	
MPE-135	.30x.18	135	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-138	.30x.20	138	125	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-150	.30x.18	150	100	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-178	.30x.22	178	125	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-200	.30x.20	200	125	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-218	.30x.22	218	125	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-100-30-260	1.00x.30	260	500	\$2.00	\$8.00	\$14.00	\$60.00	\$60.00	\$60.00	
MFE-30-25-260	.30x.25	260	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MPE-266	.30x.30	266	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-300	.30x.25	300	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-340	.30x.30	340	100	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-360	.30x.20	360	100	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-362	.30x.27	362	100	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-375	.30x.25	375	100	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-390	.30x.30	390	100	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-400	.75x.35	400	500	\$3.00	\$10.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-435	.30x.25	435	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-550	.30x.30	550	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-680	.30x.30	680	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-685	.30x.40	685	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-100-40-715	1.00x.40	715	500	\$2.00	\$8.00	\$14.00	\$60.00	\$60.00	\$60.00	
MFE-30-12-715	.30x.12	715	30	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-785	.30x.32	785	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-820	.30x.40	820	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-1000	.30x.40	1000	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-1160	.40x.30	1160	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-3000	.40x.30	3000	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-4300	.40x.20	4300	50	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-6250	.30x.42	6250	75	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-7950	.40x.30	7950	30	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	
MFE-11500	.50x.40	11500	30	\$2.00	\$6.00	\$10.00	\$60.00	\$60.00	\$60.00	

MULTI LAYER COATING										
Part #	L x Dia	uH	I - ma	Price	5 pcs	10 pcs	100 pcs	500 pcs	1000 pcs	
MPC-90	.30x.28	90	30	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-95	.25x.12	95	30	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-110	.30x.25	110	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-135	.30x.19	135	30	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-145	.30x.22	145	30	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-155	.30x.19	155	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-25-30-180	.25x.30	180	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-30-30-180	.30x.30	180	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-195	.30x.18	195	30	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-200	.30x.25	200	75	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-205	.30x.20	205	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-225	.30x.30	225	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-260	.30x.25	260	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-265	.30x.30	265	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-266	.30x.30	266	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-30-30-300	.30x.30	300	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-30-22-300	.30x.22	300	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-325	.30x.30	325	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-355	.30x.22	355	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-425	.50x.42	425	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-510	.30x.30	510	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-590	.30x.28	590	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-625	.30x.35	625	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-835	.30x.40	835	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-1200	.35x.32	1200	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-30-32-1400	.30x.32	1400	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-32-32-1400	.32x.32	1400	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-1530	.35x.32	1530	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-1650	.40x.35	1650	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MPC-1660	.35x.30	1660	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-7900	.40x.28	7900	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-8450	.45x.48	8450	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-10300	.50x.40	10300	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-16900	.50x.40	16900	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-21000	.65x.41	21000	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-23000	.50x.50	23000	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	
MFC-26000	.65x.45	26000	50	\$2.00	\$5.00	\$7.50	\$50.00	\$50.00	\$50.00	

MULTI LAYER SHRINK										
Part #	L x Dia	uH	I - ma	Price	5 pcs	10 pcs	100 pcs	500 pcs	1000 pcs	
MFS-59	.70x.40	59	300	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-100	1.00x.40	100	800	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-110	1.25x.45	110	1200	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-115	1.50x.60	115	2000	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-170	.75x.40	170	800	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-182	.75x.50	180	125	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-520	.75x.50	520	300	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-750	.50x.22	750	200	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-1110	.75x.40	1110	300	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-1125	1.20x.30	1125	200	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-4300	.78x.70	4300	200	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-13000	.75x.50	13000	125	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-17500	.75x.50	17500	125	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	
MFS-39200	.75x.45	39200	125	\$3.00	\$10.00	\$15.00	\$100.00	\$100.00	\$100.00	

SINGLE LAYER ENAMEL								
Part #	L x Dia	uH	I - ma	Price	5 pcs	10 pcs	100 pcs	
SFE-4	.65x.22	4	2000	\$2.00	\$6.00	\$14.00		
SPE-4.5	.62x.20	4.5	800	\$2.00	\$5.00	\$7.50		
SFE-33-10-5.5	.33x.10	5.5	200	\$2.00	\$5.00	\$7.50		\$50.00
SFE-20-23-5.5	.23x.10	5.5	200	\$2.00	\$5.00	\$7.50		
SPE-30-14-5.5	.30x.14	5.5	200	\$2.00	\$5.00	\$7.50		\$50.00
SPE-50-17-5.5	.50x.17	5.5	300	\$2.00	\$5.00	\$7.50		
SPE-62-20-5.5	.62x.20	5.5	300	\$2.00	\$5.00	\$7.50		\$50.00
SPE-30-10-6	.30x.10	6	200	\$2.00	\$5.00	\$7.50		
SFE-75-22-6	.75x.22	6	800	\$2.00	\$5.00	\$7.50		\$50.00
SFE-78-30-6	.78x.30	6	500	\$2.00	\$5.00	\$7.50		
SPE-25-10-6.5	.25x.10	6.5	200	\$2.00	\$5.00	\$7.50		\$50.00
SPE-30-15-6.5	.30x.15	6.5	200	\$2.00	\$5.00	\$7.50		\$50.00
SPE-62-18-6.5	.62x.18	6.5	300	\$2.00	\$5.00	\$7.50		\$50.00
SPE-25-12-7.5	.25x.12	7.5	200	\$2.00	\$5.00	\$7.50		\$50.00
SPE-75-20-7.5	.75x.20	7.5	300	\$2.00	\$5.00	\$7.50		\$50.00
SPE-10	.35x.11	10	200	\$2.00	\$5.00	\$7.50		\$50.00
SPE-42-10-11	.42x.10	11	200	\$2.00	\$5.00	\$7.50		
SPE-50-13-11	.50x.13	11	200	\$2.00	\$5.00	\$7.50		\$50.00
SPE-11.5	.35x.15	11.5	200	\$2.00	\$5.00	\$7.50		
SPE-41-12-12.5	.41x.12	12.5	200	\$2.00	\$5.00	\$7.50		\$50.00
SPE-30-10-12.5	.30x.10	12.5	30	\$2.00	\$5.00	\$7.50		\$50.00
SPE-18	.57x.20	18	200	\$2.00	\$5.00	\$7.50		\$50.00
SPE-50-17-23	.50x.17	23	80	\$2.00	\$5.00	\$7.50		\$50.00
SPE-75-19-23	.75x.19	23	200	\$2.00	\$5.00	\$7.50		\$50.00
SFE-25	.75x.21	25	200	\$2.00	\$5.00	\$7.50		\$50.00
SPE-27	.30x.10	27	30	\$2.00	\$5.00	\$7.50		\$50.00
SFE-34	1.00x.29	34	800	\$2.00	\$5.00	\$7.50		
SFE-36	.88x.22	36	300	\$2.00	\$5.00	\$7.50		
SPE-39	.75x.21	39	300	\$2.00	\$5.00	\$7.50		\$50.00
SPE-44	.75x.21	44	300	\$2.00	\$5.00	\$7.50		
SPE-45	.50x.13	45	80	\$2.00	\$5.00	\$7.50		
SPE-58	.50x.13	58	80	\$2.00	\$5.00	\$7.50		\$50.00
SPE-75	.50x.15	75	30	\$2.00	\$5.00	\$7.50		\$50.00
SPE-77	.50x.15	77	30	\$2.00	\$5.00	\$7.50		
SFE-78	.75x.40	78	800	\$3.00	\$10.00	\$15.00		
SPE-80	.75x.20	80	150	\$2.00	\$5.00	\$7.50		\$50.00
SFE-95	.85x.25	95	200	\$2.00	\$5.00	\$7.50		
SFE-97	.50x.18	97	50	\$2.00	\$5.00	\$7.50		\$50.00
SFE-116	.73x.38	116	800	\$2.00	\$6.00	\$10.00		
SPE-148	.40x.15	148	30	\$2.00	\$5.00	\$7.50		\$50.00
SFE-170	.50x.13	170	125	\$2.00	\$6.00	\$10.00		
SPE-185	1.25x.35	185	200	\$2.00	\$5.00	\$7.50		\$50.00
SFE-188	.42x.11	188	30	\$2.00	\$5.00	\$7.50		
SPE-188	.50x.13	188	30	\$2.00	\$5.00	\$7.50		

Standard Relays

OPEN FRAME RELAYS with heavy 10 amp silver contacts; mi-calex insulated. 1.8x2.4x1.8, 1 lb sh. USED-CLEAN:

DPST NO, coil 115 VAC 60 Hz 400 ohms, #22-4383, \$16.00

DPDT, coil 6.3vac1 ohm, #22-4384, \$18

SPDT 9.6-15.8 VDC relay 206 ohm coil; used in GE mobile transceivers. For solder or socket connections. 1x1x3/4, #3BSW1001A2, Unused, \$1.75 each. #24/\$29.95

DPDT P&B PLATE RELAY; sealed metal can, requires octal socket. 2.5x1.5x1.4, #KR-4175-1, Unused, \$2.50

OMRON 3PDT RELAY, 24 V DC 650 ohm coil; 2 A contacts. 11-pin plug-in/solder lugs. 1x1.5x0.8; #OM-MY3, \$3

P&B 3PST 120 VAC coil, 10 amp 1/4 HP contacts; clear cover. #KU-4666, \$3.95

DUAL DC COIL each 3PST; one 24 V, other 48 V. PC-mnt. 2.8x1.5x1.3; #116-2601, \$3.00

115 VAC 60 Hz COIL 25 amp @ 28 VDC/ 115 VAC contacts; solder terminals. 1.8x 3x1.8; #26S20/2054, Used, \$4.75

K3 Relay removed from the T-368. 380 ohms 115VAC 60Hz. High voltage: SP-NC 2500VDC at 500ma. Low voltage: SPDT 500VDC at 10ma. #K3-T368, \$29.95

Open frame relay 24VDC 230 ohm coil. 3PST N.O. 10 amps 120VAC / 5 amps 240VAC. SPST N.O. 1 amp 24VDC #DOUX-2055, \$4.75

4PDT 48VDC 3700 ohm coil; 1x1.5x1.7, #MHX4069, \$2.00

DOLLAR DAZE RELAY KIT, five mixed relays various voltages AC/DC. #DD-56-98, \$2.50

SENSITIVE RELAY SPDT 6 to 12 VDC 1500 ohms, contact adjust. 2.8x2.2 x2.3, 1 lb sh. #RM39/1901, used \$1.95

Sealed SENSITIVE RELAY, 50 ohms 28 ma coil; DPDT contacts. Solder hooks; 1x1x2 1/4. #R400-2B-50, \$3.50

ULTRA-SENSITIVE P&B 6 VDC DPDT RELAY, coil 500 ohm res. < 40 mv nom. power. Contacts rated 2 amp @ 28 VDC/120VAC; solder or socket mount. #R10-E1Y2SS500, Unused, \$4.25

Vacuum Relays

Kilovac (equal to Jennings RB1H) SPDT 26 VDC 270 ohm coil; 12 KV pk AC/DC 15 amps cont. W/ mount flange; 2.3"x1.5" dia, 1 lb. #H-8, Used, \$79.95

SPDT 335 ohm; 3.6 KV pk 18 A AC/DC. Max-open/release: 6 ms. 1.3"Hx0.8" dia, used less hardware, #RJ1A-26S, \$58.00

SPDT 8 amps at 2KV Jennings vacuum relay. 26 vdc, 920 Ohm coil. Mounts in 1/2" hole. 1.6" long. One terminal trimmed but usable. #RF1E-26N591, \$40

Vacuum Contactors

JENNINGS SPST VACUUM CONTACTOR for 3-1/8" (78 mm) dia hardline coaxial hook-up; rated 25 KW @ 30 MHz; 20 KV peak test; actuator 19-29 VDC. 4x8x3.8, 7 lbs. #RC10A5225A24, Unused, \$120

JENNINGS SPDT RF CONTACTOR for high power transmit and process equipment. 26.5 VDC actuator switch rated 300 amps @ 2.5 KV peak; pk test 10 KV 60 Hz. Sealed enclosure w/ mount flange; connector not available. 5x 5.3 x9.5, 22 lbs sh. #RF20BLDE812H-I, \$175.00

Relays, etc...

LEDEX 28 VDC SOLENOID, 8-position 45 deg stroke. Start torque: 5 lb-in 35 W (15 lb-in holding) cont. duty; 32 lb-in 700 W 1/20 duty. 75-size 2.8" dia 1x1.9" W; 1/2x3/8" dia shaft. 4 lbs. #S-8210-025, Unused, \$5.75

ITT General Controls Sub-miniature Direct Acting Solenoid Valve. Coil 24 VDC, 10 PSI, 1/8 in port. For use with air, gas, water, hydraulic fluids, light fuel oils. Looks like 5/16 fitting. 2" long x 1" diameter. 1 lb sh. #S32121012, Unused, \$12.00

RELAY SOCKETS

10-BLADE Relay Socket for track mount of above; pressure screw terminals; 2.8x1.4x2", Weidmuller mfg. 1 lb. #SKT-10, Unused, \$3.00

REED RELAYS

4-REED RELAY CIRCUIT BOARD, 3 / 500 ohm & one 5K ohm 10-15 VDC relays; also a 26 VDC DPDT sealed relay. #792-312, \$3.50

ELECTROL 5 VDC REED RELAY, low current SPST norm-open contacts; 0.7"x2.5"x0.6". #R4376-2, NEW, \$2.75

SOLID STATE RELAYS

Solid State Relay by Gordos. 3-32VDC input, 240VAC at 10 amps. 2.2x1.8x1, #G280D10V, Used, \$10.00

Contactors

CONTACTOR RELAY, 12 VDC coil & 12 V SPST norm-open contacts; 20 amps. Mfg by Massy Ferguson. 2x1.8x1.1; 1lb sh. #81-2450-1, \$3.50; 10/\$23

SIEMANS CONTACTORS, 80 VDC coils, 2 lbs. NEW: 2 NO+2NC; contacts 230/600 V 3/1 amps. Aux contact 10A 240 VAC; 2.8x1.8x1.8. #3TH12022 \$7.50

Coaxial Devices

SPDT Microwave Switch designed for high performance in microwave systems to 12.4 GHz. Has three TNC connections. Requires 24-30VDC. 3x2.70.9, Jay-EI Products. #D2-313B008, used, \$46.00

Transco SPDT Coax Relay, 50 ohms, Frequency: DC - 18GHz, Power: 28 Volt DC, Three SMA females. #82152-810C30100, Good condition, \$38.00

RE-275 APDT Coax Relay, operates over 100-400 MHz, 24-28VDC coil. VSWR better than 1.1; cross-talk better than 60dB. Three BNC connections. 2.5x 3.2x1.7, 2 lbs sh. #RE-275, Used, \$29.95

6VDC SPDT Coax Relay by Danbury-Knuelsen. For use with transmitter. Has two female BNC connections and one solder connection. #CR119, Unused, \$28.95

4000 ohm SPDT Coax Relay by Danbury-Knuelsen. Has 3 female BNC connections. #CR37, Unused, \$29.95

Coaxial Transfer Relay, 4 BNC connectors which switch from AD BC to AB CD. Allows a preamp or some other device to be switched into a coaxial line or bypassed. 24VDC coil. #10CSA2/2-01, used, \$34.00

Miniature coaxial SPDT can relay for low level RF switching. Also has SPDT contacts. 26.5 vdc 675 ohms. Hi-G d'Italia #RFK 6396, \$12.00

Same as above, but relay is in metal box with 6 very small coax connectors (SML ??) #RE-612-2, \$14.00

Broadband Coaxial Protector by Polyphaser, has male to female type N connections. Frequency coverage is 50MHz to 700MHz. Maximum Power: VHF 375W; UHF 125W. 1.8x2.5x1.5, #IS-50NX-C1, Used Excellent, \$29.95 ea.; \$5/100.

8PST CONTACTOR, rated 660 VAC 6 amps; coil 80 VDC. 3x4.5x1.8, 2# Schindler #MRG-44E, NEW, \$19.95

Deltrol Contactor / Relay is a 12 volt coil with spst contacts rated at 30 Amp or 1 HP @120V. 1701X7519, Unused, \$3.00

Transco SPDT RF relay 82152-11300-75, 28 VDC coil. Connectors are similar to type N, but are 75 ohm. The connectors will not mate with type N. Two operation coils, one is marked "energize to close" and the other is marked "energize to open". 1 lb sh. #11300-75, Used excellent, \$85

Attenuators

ELCOM ATTENUATOR, 10DB w/ SMA conn; Ag-plated, 1.5x0.5" dia. #AT-53-10, \$12

VARIABLE 6-STEP ATTENUATOR, ladder network in 10:1 ratio. Attenuates 0.1 V down to 0.1 uv; 50 ohm impedance. BNC input & output connection; shaft 3/4" Lx 1/4" dia with gear drive. Silver-plated; p/o 0.01 to 50 MHz RF generator. 3.5x4.8x3.5, 4 lb #AT101/URM25, used, \$22.00

75 ohm Alan Industries Fixed Attenuator, 3.0DB at 30MHz and 3.0DB at 1GHz. Has a BNC male on one end and a BNC female on the other. #75SP3, \$14.00

ROTARY TURRET 50 OHM COAXIAL ATTENUATORS from Empire NF-105 field intensity meter, to operate pull knob and rotate to next index. Mechanism is spring loaded to engage next attenuator element; 5"Lx3.4" dia, 5 lbs.

0-20-40-60-80 db with BNC female chassis connectors on 7.5" cables. #ATTNF105-0-80, Used, \$27.95

40-50-60-70-80-90 db; female BNC chassis & male N conn on 7.5" cable, #ATTNF105-40-90, \$23.00

One of each attenuator, #ATTNF-105-PR, \$46.00

Tap Switches

Miniature Tap Switch, 1 pole 7-position rated 1 amp 1x1/2". #MTS-7, \$2.50

6-POSITION CERAMIC RF TAP SWITCH for 100 W xmitter; 2.3x2.3x1.8, 1 lb. #3Z9605, \$4.50; 10 for \$37.

THREE DECK 7-POSITION TAP SWITCH w/ screw terminals; 10 amp shorting contacts. 1.8x2.3x1.1 + 1.3" x 0.3" dia shaft. #ES32303LM, \$4.50

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

Misc. Switches

MICROSWITCH KIT, five SPST
VARIOUS style. #MSW-KIT, \$1.50

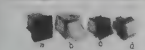
 C&K KEY-SWITCH for elec-
tronic equipment; SPST 4
amp 125 V rated. Two
keys; 5/8" dia, 1" depth.
#CK-KY-SW, Unused, \$4.95

DPDT Two
Position On-On
Key Switch by
Alco. Panel mount
with 3/4" diameter thread. 1 lb sh.
#AEL-01, Unused, \$8.95

ROCKER SWITCHES, 1.6"Wx0.6"Hx
1.3"D; mt flange 1.9"W
#0319, SPST, 2 for \$1.00
#3020, SPDT momentary both sides,
2 for \$1.50

 4PDT one side 2PDT
other side, both
sides mom. #1155, Unused, \$2.50

Mini Switches

 Black= Bk. White= wh. NEW:
SPDT on-off-on, wh. toggle (b); Alco
#MLD106E, \$1.00

SPDT on-on, blk. rocker (c) JBT
#MR2-123, \$1.00

SPST black rocker (not mini) Carling
mfg. #123, \$1.00

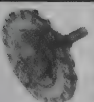
SPDT mom push switch; C-NC-NO.,
C&K mfg. #8125, 2/\$1.50

DP3T one side mom. (f) toggle; Alco
#CST-023TA, 2/\$1.50

DPDT on-on slide (h), #MINI-SL, 5/\$1.

SUB-MINI SLIDE SWITCH, SP 3-pos:
#SLS-131PC, 3/\$1.00
+ + + + +
Mini-Toggles, 120 VAC 6 A:
SPDT ON-ON, Used, #MINI-1, \$1.00
SPDT On-Off-On, Used, #MINI-2, \$1.00
DPDT On-Off-On, Unused, #MINI-3, \$1.50

Rotary Switches

 DAVEN-TYPE 18-POSI-
TION, continuous turn;
2" dia. Zinc-silver con-
tacts. 1/2x1/4" diameter
shaft. #3Z9825-92.2, \$3.50

FIVE-DECK ROTARY, each 2-pole 4-
position; bakelite. 4x1.6" dia.; shaft
1/2x1/4" dia #SW-RM39, Used, \$1.50

Rotary Switch 4 pole 6 position 1.6"
diameter bakelite. 1/4" dia shaft.
#SW-46, \$2.50

MINI-ROTARY, 1-pole 3-pos. short-
ing. 1" dia; 1/8" dia shaft. No hard-
ware #LED-M13-S, unused, \$1.75

Toggle Switches

 Some single hole mount, some with
mount plates; CH = Cutler Hammer,
Unused unless otherwise noted:

AIRCRAFT-type Toggle, two hole mt:
SPDT 5A/125V, CH, Momentary on-off
#B-21, \$1.25
SPDT 5A/125V, CH Momentary on
one side, on-off-on, #B-7A, \$1.25
DPDT 20A/125V, CH, #8710K3, \$3.50
DPDT 20A/125V, CH, Radium tip
on-on momentary, #3023-10B, \$3.00
DPDT 20A/125V, CH, on-off-on,
#8700K3, \$4.00

INDUSTRIAL-type TOGGLES:
DPDT 10A/125V, CH, on-on
momentary, #ST-52R, Used, \$1.00
DPDT 6A/125V AH&H, on-on; 1" mt
barrel, 1/2" dia. white ball cap,
#T-WB-87, \$2.50
DPDT 10A/125V, mfg CH, #ST-52N, \$2.50
3PDT 15A/125V, CH, #7614K2, \$3.00
DPDT 6A/125V, CH, Bat Handle,
#TG-B-CH, \$2.25
3PDT 15A/125V, CH, #TG-3PDT-2, \$3.50
3PDT 16A/125V, A-H&H, on-off-on,
#TG-AHH, \$4.50
DPDT 15A/125V, CH, Bat Handle,
#TG-B-DPDT, \$3.00

Push Button

#67137-506, 13-button Push-on/Push-
off; 8.8" W. \$8.50

 KLIXON 15 AMP PUSH BUT-
TON w/2.3" W mount flange;
fits 1.4"x0.8"x1.4" hole.
#43A8304, unused, \$1.75

MICROSWITCH ALM-20 push-on/
push-off SPDT switch w/rd 5V LED;
0.9" sq x 2"D. #ALM-20-5V, \$3.00

Code Switch BCD 0-9
bidirectional push
switch. Manufactured
by Alco/Augat Mico.
Ten Sections (as pictured),
#131-AL-2-10, \$30
One section, #131-AL-2, Unused,
\$4.75; 10 for \$35.00

ROTARY SW, 1.6" dia bakelite
3-deck 4P 2-pos, #SW-342, \$2.50

 3-Pole 4-Position, #4-
pos momentary; 1" dia
bakelite. #SW-PRC-10,
Unused, \$1.75

TECH-LAB precision, 4 pole 7-posi-
tion w/ gold-plated contacts; 2-
poles 5 amp & two 3 A. Shift
1"Lx1/4" dia; o/a 2.3x2.3 x2.5, 1 lb.
#TL-4P7PS, Used, \$6.00

ROTARY SWITCH KIT,
six types: multideck
and contacts,
#RS-KIT, \$2.50

Fuse & Fuseholders

Large Industrial Style Fuse by Gould -
Shawmut Plug Form 600, 175 amp
600 Volt AC-DC. 9.5"Lx1.5"Dia.
#600-175A, Used, \$6.00

GE Type EJO-1, Model 9F60FJD100,
Size D, 12" clip spacing, 100E Amp,
4800 V, 15.9"L x 3"Dia, 10 lbs sh.
#EJO-1, Unused, \$22.00

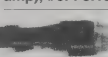
Standard 3AG 6.35x32mm 250VAC Fast
Acting Fuses. New. Part #6FF(Amps)
The following are 5 / \$2.50; 10 / \$3.95
Amps: 0.1, and 0.25
The following are 5 / \$1.29; 10 / \$1.95
Amps: 0.5, 1, 2, 3.15, 4, 5, 6.3, and 8

Same as above except Slow Blow. New.
Part #6FU(Amps).
The following are 5 / \$2.50; 10 / \$4.00
Amps: 0.25, 0.5, 1, 2, 3.15, 4, 5, 6.3, 8, 12

 5x20mm 250VAC Fast Acting
Fuses. New. Part #FF(Amps).
The following are 5 / \$1.19; 10 / \$1.99.
Amps: 0.5, 1, 1.6, 2, 2.5, 3, 4, and 5
The following are 5 / \$1.55; 10 / \$2.70
Amps: 0.1, and 0.2

100 piece Fuse Set
5x20mm 250VAC Fast
Acting. Consists of 10 of
each of the following amps: 0.1, 0.2, 0.5,
1, 1.6, 2, 2.5, 3, 4, and 5. #K/FF, \$13.80

R-390A Fuses, New,
0.1 amp (good replacement for 1/8
amp), #6FF0.1N, 5 / 2.50, 10 / \$3.95
0.25 amp, #6FF0.25N, 5 / 2.50, 10 / \$3.95
3.15 amp (good replacement for 1/8
amp), #6FF3.15N, 10 for \$1.95

 LIGHT INDICATOR
FUSEHOLDERS for
3AG fuses; 1.6"D
behind panel. O/a 2.9"L; used: 115 V,
clear, #FU-HKL, \$3.00

5AG / AGU In-line Fuseholder,
#FH-5AG, Used, \$2.50

Line Filters

CORCOM EMI 1 AMP Line
Filter. 120/250VAC
50/60Hz. 2.3x0.8x0.6,
#F-7099, Used, \$1.35

CORCOM EMI 3 AMP filter
with solder connections.
115/VAC 50/60Hz. 2.7x1.7
x1.2, used, #3W1A \$1.75

3 Amp 120/250 Volts Line Filter by
Corcom. 4 solder terminals. #F2133,
Unused, \$2.95

5 Amps 120/250 Volts Line Filter by
Corcom. R Series with 1/4 quick
connect terminals. #5VRI, Unused, \$3.95

10 Amp 120/250 Volts Line Filter by
Corcom. W Series with 1/4 quick
connect terminals. #10VW1, Minor
rust. Unused, \$6.95

10 Amps 100 VDC Line Filter by Sprague.
Two threaded terminals. #JX51K, \$4.95

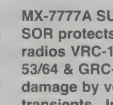
TOKIN 250 VAC 15 amps 50/50 Hz with
spade terminals; 2.6"Lx1.8" dia, 1 lb.
#VG-215F, NEW, \$3.50

2x20 AMP FILTER, 115 to 250 VAC 48-
440 Hz; 3.4x1.5x 3.2, 1 lb. #F5066,
NEW \$3.95; 10/\$28.95; 100/\$225.

55 Amps 30VDC Line Filter by Cornell
Dubilier. 2 terminals. #FL-19,
Unused, \$6.95

Suppressor

 MX-10237 / MX-2096
Suppressor Electrical
Transient for the VRC-12
Radio Set. This circuit
protector consists of a
standard size 4 pin GRC
male connector with a
threaded center, indica-
tor light, 2 hole mount
bracket, heatsink, and plate which is
marked "Danger High Temp 215 degree
F". FSN #5915-01-024-3877. It con-
nects directly to either the transceiver
or AUX receiver mount. In some appli-
cations it replaces the MX-7778 sup-
pressor. No further data. 3 lbs sh.
#MX-2096, Unused, \$17.00

 MX-7774 SUPPRES-
SOR protects vehicle
radios VRC-12, VRC-
53/64 & GRC-106 from
damage by voltage
transients. Input 28
VDC; output < 36 VDC. Has 50 amp cir-
cuit breakers for Overload & Short;
diode overheat protection & manual
(BATTLE) override. 9.9x6.2x5, 7 lbs
sh. #MX-7774A, Used, \$25.95

PLUGS (2) for MX7777; #29935-2P,
used, \$12.00 ea
PLUGS (1) for MX7777; 4 pin female,
#7777-4P, Used, \$12.00

Bandpass Filters

 TUNABLE TWIN-CAVITY
BAND-PASS FILTERS, gold-
plated cavities have tune
knobs, dials, and rear N-
connections. Designed for mili-
tary TRC-24 radio system for
specific frequency ranges;
usable and/or adapt for civilian pur-
poses. 7x2.5 x9.5, 8 lbs. Used, \$25.95 each.

#F-196, 184-205MHz #F-199, 224-254MHz
#F-200, 254-284MHz #F-203, 344-374MHz

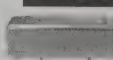
#F-197, 205-225 MHz, unused, \$34.95
#F-204, 374-404MHz, unused, \$23; 2 / \$35

F-1482/GRC BANDPASS FIL-
TER, three 30-88 MHz tunable
helical cavities with dial locks
and 1.5" dia 0-60 Watt meter;
switch for 6 or 60 W Phase,
Reflected or Forward W. BNC
output connection; special RF
input connection. Rugged military
design; 8.8x2.5 x9, 10 lbs sh. #F-1482,
GOVT-RECONDITIONED, \$99.95

 K & L Tubular
Bandpass Filter.
Six section filter. 26 MHz BW. 200
watts. VSWR = 1.5:1. Center frequen-
cy is 257MHz. 50 and 75 ohm imped-
ance. SMA male connections on each
side. 1 1/4" diameter x 6.8" long. 3 lbs
sh. #6B110-257/HQ26-OP/OP, Used
Excellent, \$18.00

Bandpass Filter 2.0 -
3.15 MHz. 3X0.75, #A-251-A, Unused, \$6.

250KHz Mech. Filter

 250KHz Mechanical Filter
from Collins F250A85.
8.5KHz Bandwidth.
#526-9049-009, Unused
in the original box, \$21.95

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

Coax Connectors

TYPE UHF:

#PL-259 UHF Male, Generic, \$1.25 each 10 /\$11.00
#SLV-PL-259, As above but silver plated, \$2ea; 10/\$15
#R3-1SP, As above but Amphenol, \$5.38ea; 10/\$47



#SLV-SO-239 UHF Female Silver Plated.
Made by Amphenol, New, \$2

#PNL-SO-239 UHF Female Silver Plated.
SO-239 mounted on a panel, Used, \$1.40



#SH-SO239 1 hole mount female barrel mount, \$1.



UG-363 Female to Female UHF
adapter. 3 inch long, #UG-363, Unused, \$3.99

#PL-258 UHF Female to Female, \$1.75 ea 10 /\$16.
#M-358 "T" for two PL259 & one SO239, used, \$1.50

#R3-185-RFX, UG-175 reduces PL-259 to RG-58
coax, \$0.60 each; 10/\$5.50

#R3-168-RFX, UG-176 reduces PL-259 to RG-59
coax, \$0.60 each; 10/\$5.50

Silver Plated Old style Twin-Ax "T" Adapter.
2 female & 1 male, #UG-196, Unused, \$5.00

CONNECTORS & ADAPTERS: (m) male, (f) female,
(bulk) bulkhead, (rec) receptacle, (r/a) right angle;
(U) = Used, (Un) = Unused.

TYPE BNC: UG-88m (RG-58) Used, \$1.00 ea
BNC (m) (RG-58) Amphenol, New, #31-2-RFX, \$2.65/\$11.50
UG-260 m (RG-59) U \$1.00 UG-290 f panel U \$1.25
-274 "T" 2-f to m, U \$4.50 -909 bulk U \$1.25
-273 to UHF, U \$2.50 -306 R/A adapter,
-282 to post \$1.75 used, \$2.00



BNC "T" like UG-274. Useful
around the shop. Nickel plated.
#274-T, Un, \$3.50

TYPE N: UG-21 male (RG-8), Used, \$3.50

Type N male (RG-8) Amphenol, New,

#82-202-RFX, \$6.35; 5 / \$28.95

UG-58 f chassis U \$3.00 UG-27 R/A m-f U \$2.50

-536 m (RG-58) U \$2.50

-593 f bulkhead for R-59-62, used \$1.75

-1052 f bulkhead for RG-58, used, \$1.75

TYPE C: UG-643 "C" female-female, \$3.00

UG-573 Type "C" Male Unbalanced Silver Plated

Connector/ R-390A. #UG-573, Unused cut-off, \$6.50

TYPE TNC: Gremar #6000 (m) used, \$1.75 ea

#6177 m R/A Un \$3.50 #6098 to N f bulk U \$3.50

TYPE HN: UG-59 male Used, \$6.00

UG-920 m-f R/A, \$7.00

R-390A Connectors:

Twin-Ax male, Amphenol, New,

#82-5589-RFX, \$9.95; 3 / \$25.00

Mini-BNC p/o R-390A, #390A-MBNC, used, \$3.00

As above but chassis, #390A-MBNC-CH, used, \$3.00

Hard to find R-390A balanced input
adapter. Goes from Twin-ax male to a
UHF female. Unused, #UG-970, \$40.



Trompeter



Trompeter Cable, 10 inch patch
cord with two gold plated
trompeter PL150-29 mini patch
plugs. Used good condition,
#TRMP-1, \$14.00

As above except 2 feet long. #TRMP-2, \$16.00

Cable Ties



1000 piece CABLE TIES IN PLASTIC CAN.

0.1 x 3.9": 100 pcs blue, 100 pcs red,

100 pcs white, 100 pcs yellow

0.14 x 5.9": 100 pcs white, 100 pcs blue,

100 pcs green

0.14 x 7.9": 200 pcs white

0.14 x 11.8": 100 pcs white

Material: polyamide (nylon 6.6) as specified
in MIL-S-23190 self-extinguishing. Temperature: -
40F to +230F. #K/TF1000, New, \$16.98

As above but 300 piece kit.

0.1 x 3.9": 25 pcs green, 25 pcs yellow,

25 pcs black, 25 pcs red, 50 pcs transparent

0.14x7.9": 50 pcs red, 50 pcs blue, 50 pcs

transparent. #K/TF300, New, \$6.00

100 pieces of Nylon Black Cable Ties, 4" x 0.1", -
40F to 230F, #K/TFB3, New, \$1.00

As above except, 5.5" x 0.14", #K/TFB4,
New, \$1.78

As above except, 8" x 0.14", #K/TFB5,
New, \$2.78

As above except, 11.4" x 0.14",
#K/TFB6, New, \$7.90

All nylon ties listed below are common locking
type and are standard 0.12" width.

#CT-5.5, Black 5.5" overall length, 50/\$4.; 100/\$6.50

#CT-5, Natural 5" overall length, 50/\$4.; 100/\$6.50

As above except 0.06" width. Bundle dia. is 5/8".

#CT-4, Black 4" overall length. 50/\$3.00; 100/\$5.00

#CT-4.5, Natural 4.5" overall length. 50/\$3.; 100/\$5.

Tie-Down Nylon Cable Tie - Ideal for fastening
wiring or harnesses to chassis or mechanical
assemblies. Accepts #10 screw. Maximum bundle
diameter of 1 1/4". Overall length of 6".
Standard 0.19" width.

#TCT-6B, Black color, 50/\$5.50; 100/\$8.00

#TCT-6N, Natural color, 50/\$5.50; 100/\$8.00

Electrical Tape

Set of 6 rolls of electrical tape in dif-

ferent colors: yellow, white, green,

black, blue, & red. Ideal for color

code wiring your audio systems,

computers, etc... 3/4" wide. Length

is 16.4 feet per roll. #T5S, New, \$2.20



AC Line Cords

3-COND LINE CORDS:

18 AWG 3-blade line coil cord;

Stretches to 10 feet. with AC

Plug. #SJO-18, \$4.50

10 ft flat w/ R-A plug; #14 wire. #14-10FT, \$3.00

BUSINESS MACHINE CORD,

3-blade type w/ AC plug; 6' black, 18 AWG.

#HP-NS, \$2.50

16 AWG 3-blade line cord; no AC plug.

#16-HP-NP, \$2.50

HEATER CORD type HSJ, 3-cond 7.5' #16 wire; grey
molded R/A plug. #HSJ-16, \$2.50

Heat Gun & Shrink



1200 watt NTE Heat Gun,
Electronic variable tempera-
ture control dial with tempera-
tures ranging from 250F -
1100F / 120C - 590C. Two
speed motor. Heat guard.
High quality heat element and
solid state construction. Also

strips paint and varnish. Thawing and drying.
Shrinking and softening. #HG-001VT, New, \$41.99

4 Foot NTE Heat Shrink Tubing. Shrink
Temperature: 120C. Shrink Ratio - 2:1.
Example - 1/16" shrinks to 1/32".

Comes in four colors: Black - "BK"; Clear -
"CL"; Blue - "BU"; Red - "R". New.

1/16", #47-20148-(Specify Color), \$0.87
1/8", #47-20348-(Specify Color), \$0.91
1/4", #47-20548-(Specify Color), \$1.30
3/8", #47-20748-(Specify Color), \$1.56
1/2", #47-20848-(Specify Color), \$2.02
3/4", #47-20948-(Specify Color), \$2.70
1", #47-21048-(Specify Color), \$3.71



HEAT-SHRINKABLE

TUBE KIT - 40pcs- BLACK,

Contains: 0.04x 120mm 4.7": 10

pcs; 0.08 x 120mm: 10 pcs; 0.16 x

120mm: 5 pcs; 0.24 x 120mm: 5

pcs; 0.35 x 120mm: 5 pcs; 0.47 x

120mm: 5 pcs. Halogen and dioxine free, flame retar-
dant. Shrinking temperature: 90°C; max. tempera-
ture: 120°C, 2:1 Shrinking ratio. Dielectric strength:
15kV/mm. New, #K/STB, \$4.20

1/16" black Polyolefin. 90°C shrink temp. Made by

Sumitomo. #11438-(specify feet).

10ft \$3.50; 25ft \$7; 50ft \$12; 100ft \$20

3/8" Dia. Alpha Irradiated PVC Heat

Shrink Tubing. For wire harness jack-

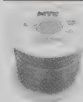
eting and covering handles, capacitors,

and terminals. Rated 105 degree C.

2:1 shrinkage ratio at 175 degree C. 3/8" diameter.

#FIT-105-3/8, Unused, 10 ft for \$4; 25 ft for \$7.50

NTE Hook-up Wire



Stranded Hook-up Wire by NTE on the

reel. Rated 300V minus 90 degree

Celsius. Comes in the following col-

ors: Red "R", Black "BK", White "W",

Blue "B", Yellow "Y". New.

Gauge	Length	Part Number	Price
18	25ft	WH18-(specify color)-25	\$4.59
20	25ft	WH20-(specify color)-25	\$4.07
22	25ft	WH22-(specify color)-25	\$3.73
24	25ft	WH24-(specify color)-25	\$3.33
26	25ft	WH26-(specify color)-25	\$3.43
18	100ft	WH18-(specify color)-100	\$9.63
20	100ft	WH20-(specify color)-100	\$7.93
22	100ft	WH22-(specify color)-100	\$7.23
24	100ft	WH24-(specify color)-100	\$5.87
26	100ft	WH26-(specify color)-100	\$5.38

TEFLON Hook-up Wire by NTE on the reel.

Rated minus 200 degree Celsius. Comes in the fol-
lowing colors: Red "R", Black "BK", New.

Gauge	Length	Part Number	Price
18	25ft	WT18-(specify color)-25	\$14.10
22	25ft	WT22-(specify color)-25	\$8.87

SURPLUS HOOK-UP WIRE

Vinyl-covered hook-up wire, all stranded copper;
no color choice. May not have continuous lengths
over 1000 ft. Allow 2 lbs sh weight per 100 feet

Part#	Gauge	Price
HUW-20, 20		\$16/500 ft
HUW-22-SH, 22 SHIELDED		\$4.50/100' \$26/1K' \$85/5K'
HUW-24, 24		\$16/500 ft
HUW-26, 26 SOLID		\$7/500' \$10.50/1000' \$35/5000'

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

Coax Cables

COAX CABLES with connectors from military equipment. USED/UNUSED:

#CG-409 CABLE, 8ft RG-58 with 2 BNC, \$4.75
#RG-213-1, 16" RG-213 coax w/ R/A N conn. \$6.00
#CG-3444, 42" RG-214 w/ 2 UG-573 "C" conn., \$10.50
#A303892-10, SMA (m); TNC (f) 8" jumper; \$5.25

18 foot RG-71 (93 ohm) Coax Cable with a BNC Male on each end. #DLA400, Unused, \$10.00



RG-142 Cable 3' 3" long with type SMA screw on male going to a type N female on the other. The type N female does not have any nuts. Cable is rated for 50 ohms 5000 volt. Diameter of the cable is similar to RG-58. Various manufacturers. 2 lbs sh. #RG-142-3, Used excellent condition, \$7.50

- - - TYPE N - SMA CABLES - - -

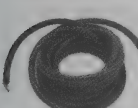
From cellular installation:



Type N male to SMA male w/ 12" coax. #N-SMA-12, \$3.50

Type N female to SMA male w/ 33" coax. #FN-SMA-33, \$4.50

BNC Male to right angle BNC male six foot RG-58 coaxial cable. #CG-1773, Unused, \$6.00; 5 for \$20



W-128 Single conductor antenna wire as used on many radio sets from WW2 thru the 1970's. Removed from installation kits, good condition. #W-128-5, 5 feet, \$9.50;

Hardline Coax

Hardline 50 ohm Coax, 3/8" dia aluminum jacket, foam insulated. 9 gauge center conductor. 3/32" dia solid copper wire. 25pf per foot nominal impedance, impedance 50 ohms, 2500 vrms: #HLCX-3/8-(specify feet), \$7.5/ft; 100 ft/\$63.00 500 ft/\$255.00

MINI-FLEXIBLE HARDLINE COAX CABLE, Belden 1573A (RG-402 50 ohm) with SMA connectors.

M =male, F=female, RA=right angle

#507-174A, M-RA to M-RA, 3.5" L, \$10.50
#507-175A, M to F N-chassis conn, 8"L, \$14.00

0.5" dia FLEXIBLE HARDLINE (Cablewave 16733) with male N-connections (1-right angle); Various lengths as noted; 5 lbs sh. #HDL-16733- (length):
6 ft, \$21. 10 ft, \$25.
12 ft, \$27. 22 ft, \$45.

CB Installation Wire Kit



Wire Kit provides parts to connect an SDU-5/E flasher to a vehicle (12/24V) battery or wiring. Kit includes the following: Voltage Converter, Adapter, (2) 3/8" Ring Lugs with Wire, (2) #8 Spade Lugs

with Wire, (2) Battery Clips with Wire, (4) Connector Splices, (4) 3/8"-16 Nut. (2) 11.5" Cable Tie, 7.25" Cable Tie, and a Velcro Strip. 3 lbs sh. #CK-SDU, Unused, \$10.00; 3 for \$25.00

Wire Galore !!

#22 Cloth Covered Stranded Hook-up Wire. Color choices: red/green, orange, orange/green, blue/red, green, PLEASE SPECIFY.
#WCC-22-(specify color)-(specify feet), \$7.50/25ft, \$23.00/100ft

Twisted two conductor 22 gauge stranded cable with tin shield. 19 strands per conductor. Has white plastic jacket. Mfg by Brand-Rex. #WT-22, \$34.95 for 500 foot spool

2 conductor w/ ground and foil shield 22 AWG CL3R Instrumentation Cable E57497 with reel. 1000 foot. 75 deg C. Blue color. 21 lbs sh. #E57497, \$34.95



Black 18 gauge 2 conductor Cable by Carol. Type SVT. 300V 60C. 250 feet. 11 lbs sh. #86002, Unused, \$26.95

Gray 24 gauge 2 conductor Cable. Ideal for intercom use and other low voltage applications. Unused, 100 feet Less reel, #WR-24-2-100, \$9.50; 1000 feet with reel, 14 lbs sh. #WR-24-2-1000, \$23.00

3 conductor 12 awg stranded wire. 65 strand 30 awg. 0.045 PVC jacket. Max 300 volt. Black color. 17 lbs shg per 100 foot. #SJTOW-A, Less than 100 feet, \$0.30 per foot 100 feet or greater, \$0.25 per foot

Twisted Twin-Axial RF cable with braid silver shield. Both conductors are 24 gauge with 19 strands per conductor. Cable rated at 77 ohm impedance. Light blue jacket. #WT-24-(specify feet), \$30.00/100ft; \$110.00/500ft

GUY WIRE, MACWHYTE Clear coated 1/4 inch stainless steel wire rope. 7x19. Unused, 100 feet, #GY-WR-100, \$85.00 500 feet, #GY-WR-100, \$350.00

- - - MAGNET WIRE - - -

1 lb spool of Magnet Wire. 34 gauge, #MGT-34, \$10. 1/4 lb spool of Magnet Wire. 30 gauge, #MGT-30, \$3.50

Crimping Tool



80-PC TRAY CARD WITH CRIMPING TOOL. Crimping tool comes with a variety of different spade terminals, ring terminals, etc.. #BL/FCT, New, \$10.95

HEAVY-DUTY CRIMPING TOOL FOR FAST-ON. For crimping insulated terminals red awg 22-18, blue awg 16-14, yellow awg 12-10. 8.7" long. #VTHCT, \$27.99

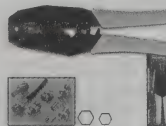


9.0". #VTFBNC, New, \$23.99

COAX CRIMPING TOOL RATCHET TYPE. For crimping BNC/TNC/NF. For RG cable: 59, 62, 140, 210, FIBROPTIC. Size: 8.7". #VTBNC, New, \$24.95



CRIMPING TOOL FOR F & BNC CONNECTORS. For crimping cables: BNC, TNC, UHF, SMA - For RG cable 59, 62, 140, 210, 55, 58. Size:



Cutters & Strippers

UNIVERSAL CUTTER - HEAVY-DUTY. 6.5" long. #VT09, \$4.90

HQ MINIATURE DIAGONAL CUTTER. Carbon steel, hardened. Black oxide finish. 4.3" long. #VT057, \$3.40



MICRO CUTTING NIPPERS. For precision work. 5.1" long. #VT100, \$3.40

HEAVY DUTY MINIATURE DIAGONAL CUTTER. Carbon steel, hardened. Black oxide finish. 4.9" long. #VT106, \$2.50



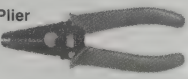
CABLE CUTTER. Curved blade cuts wires up to 0.4". 6.5" long. #VTCC, \$7.80

5" ELECTRICAL CUTTER & STRIPPER. Strips wires from 20-24 AWG and cuts wires with a max. y of 0.05". 4.7" long. #VT109, \$4.99



Adjustable Cutter/Stripper. Strips AWG 30-10 wire. Adjusts with a screwdriver. High carbon steel. Precision ground cutting surface. #200-007, New, \$4.69

Precision Wire Stripper. Plier type nose. Cutter jaws. Soft grip handles. Spring return. New. For AWG 22, 20, 18, 16, 14, 12 & 10, #200-010, \$7.99

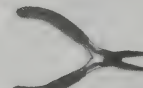


Pliers

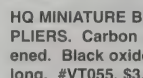


UNIVERSAL PLIERS - HEAVY-DUTY. 7.5" long. #VT03, \$5.99

HEAVY-DUTY LONG NOSE PLIERS. 6.0" long. #VT05, \$4.99



HQ MINIATURE FLAT NOSE PLIERS. Carbon steel, hardened. Black oxide finish. 4.9" long. #VT054, \$3.40



HQ MINIATURE BENT NOSE PLIERS. Carbon steel, hardened. Black oxide finish. 4.9" long. #VT055, \$3.40



HQ MINIATURE LONG NOSE PLIERS. Carbon steel, hardened. Black oxide finish. 4.5" long. #VT056, \$3.40

TOOL SET / 5PCS DIFFERENT PLIERS. Stainless-steel precision pliers set (5 pcs) : diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers. #VTSET, New, \$10.80



HEAVY DUTY TOOL SET - 3 PCS. Universal pliers, heavy-duty cutter, long nose pliers. New, #VT33, \$11.40

CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313

Vises



VACUUM TABLE VISE WITH STANDARD HEAD. Turns and rotates in all directions. 75mm jaws with protective detachable pads. Opening 70mm. With vacuum base: easy to mount on all flat surfaces, can also be mounted with screws. 5lbs.

7.3x6.2x6.2, #VTVT, New, \$26.99

TABLE VISE WITH STANDARD HEAD. Professional quality for this metal vise for table-screw mounting. Jaw opening 3.0". Rotates 270 degree. Equipped with a fast mounting system. Height: 12.0". 6 lbs sh. #VTVT2, New, \$28.99



Knives & Knife Sets



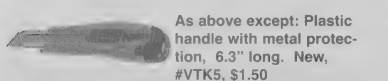
PRECISION KNIFE WITH 5-PC BLADE SET. 5.7" long. New, #VTK1, \$1.70

HEAVY-DUTY KNIFE WITH 5-PC BLADE SET. 5.1" long. New, #VTK2, \$1.70



13-PC HEAVY-DUTY KNIFE SET. Contains 3 cutters with blade and 10 spare blades. New, #VTK7, \$3.40

Utility Knife with lock. Blade snaps off for sharp tip. 4.9" long. New, #VTK3B, 2 for \$1.00; 5 for \$2.00

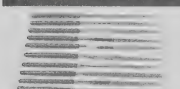


As above except: Plastic handle with metal protection, 6.3" long. New, #VTK5, \$1.50

Utility Knife with metal housing. High-Q lock button. Set of spare blades. 6.1" long. New, #VTK4, \$2.50

Five spare blades for above, #VTSB3, \$0.99

Diamond Files



SET OF DIAMOND FILES - 10PCS. Powder-coated. 4.7" long. New, #VDF1, \$9.60

SET OF DIAMOND FILES - 5PCS. Powder-coated. 5.5" long. New, #VDF2, \$4.60

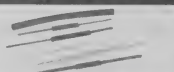
IC Extractor



IC EXTRACTION TOOL. 4.1" long. #VTIC, \$1.98

Radio Tuning Tools

6-PC PLASTIC TUNING NEEDLE SET. Comes with a variety of sizes. #VTPT, New, \$5.60



Hex Wrench Set

HEX KEY WRENCH SET - 8PCS. Hex: 0.06", 0.08", 0.10", 0.12", 0.14", 0.16", 0.20", 0.24". New, #VTHEX8, \$1.59



Screwdrivers

SCREWDRIVERS

HANDLE: Swivel-handled cap and color-coded caps for easy identification. User-friendly grips for improved comfort. Special handle for good torque. **BLADES:** Nickel-chrome molybdenum. Black oxidized tips for greater durability and accuracy. Plated blade to reduce glare and reflection. Horizontally ground tips for greater torque.

Philips type:

#0, 4.7" long, #VTC1, \$3.90
#0-3, 6.7" long, #VTC2, \$2.70
#1, 10.0" long, #VTC3, \$4.20

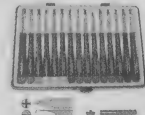
Slotted type:

0.06", 4.7" long, #VTF1, \$2.30
0.09", 6.7" long, #VTF2, \$2.50
0.14", 8.1" long, #VTF3, \$3.60



ELECTRONIC SCREWDRIVER SETS

Ideal for TV sets, communication instruments, optical instruments, cameras, computers, VCRs, telephones, etc.

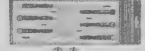


Slotted: 0.08"x1.6", 0.10"x1.6", 0.12"x1.6", 0.14"x1.6".
Philips: PH#00x1.6", PH#0x1.6", PH#1x1.6".
#VTSET13, \$4.80

Slotted: 0.12"x1.6", 0.08"x1.6", 0.10"x1.6", 0.14"x1.6", 0.16"x1.6". Philips: PH#00x1.6", PH#0x1.6", PH#1x1.6", PH#2x1.6". Torx: #T6x1.6", #T8x1.6", #T9x1.6", #T10x1.6", #T15x1.6", #T20x1.6". 4.7" long. #VTSET15, \$11.99

Chrome vanadium steel length: 4 x 6 1/2" and 11 x 4 3/4".

Torx: #T6, #T7, #T8, #T9, #T10, #T15, #T20. Slotted: 0.08", 0.10", 0.12", 0.16". Philips: PH#000, PH#00, PH#0, PH#1. #VTSET16, \$18.20



Black oxidized tips. Plastic handle with swivel-headed cap. Slotted: 0.09"x3.0", 0.12"x3.9", 0.16"x5.9". Philips: #00x3.0", #0x3.9", #1x5.9". #VTSCRSET, \$5.40

Chrome-vanadium. Fully insulated. Red plastic grip. Slotted: 0.10, 0.12, 0.14 2 Philips. #VTSCRSET5, \$2.60

Includes voltage light tester (110-500V). Slotted: 0.24"x5.9", 0.20"x4.9", 0.16"x3.9", 0.16"x3.7", 0.10"x3.0". Philips: PH#0, PH#1, PH#2. #VTSCRSET1, \$5.20

Includes voltage tester with neon indicator (230-250V). Fully insulated (1000V). Slotted: 0.16"x3.9", 0.22"x4.9", 0.26"x5.9". Philips: PH#0x3.0", PH#1x3.9". #VTSCRSET7, \$9.60

Tweezers

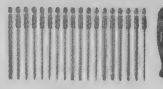


SET OF 4 TWEEZERS. Anti-magnetic stainless steel. 1 x bent nose, 1 x flat spade, 1 x self-closing and 1 x normal. 5.3" long. New, #VTTWSET, \$2.50

SET OF 4 TWEEZERS - NON-CONDUCTIVE. 5.3" long. New, #VTTWSET2, \$3.00



SECURITY SCREWDRIVER SETS



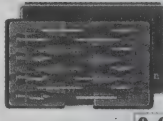
Contents - 1 x quality handle. 6 x inch socket: 5/64"x105, 3/32"x105, 7/64"x105, 1/8"x105, 9/64"x105, 5/32"x105. 6 x metric socket: 2.0x105, 2.5x105, 3.0x105, 4.0x105, 5.0x105, 6.0x105. 4 x tri-wing: #1x105, #2x105, #3x105, #4x105. 1 x cross: PH2x105. 1 x flat: 2.0x105. Comes in a plastic case. #VTBT7, \$33.95

Contents - 1 x quality handle. 7 x torx: T8x105, T10x105, T15x105, T20x105, T25x105, T27x105, T30x105. 3 x four-wing: 6x105, 8x105, 10x105. 4 x U-shape: 4x105, 6x105, 8x105, 10x105. 1 x cross: PH0x105. 1 x flat: 3.0x105. #VTBT8, \$29.95

PRECISION SCREWDRIVERS (MICROTIP)

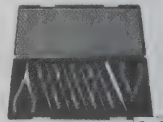
Special handle with swivel cap. Black tip, chrome-molybdenum vanadium steel. Features - **ROTATING HEAD:** to facilitate support and rotation control. **HANDLE:** varying diameter for flexible grip position and torque high impact resistance, cadmium-free material, easy to recycle. **TAPERED GROOVE:** for better grip and faster rotation. **BLADE:** made of high-quality alloy chrome-vanadium steel, heat-treated. **BLACK TIP:** for high precision, protection from corrosion. **COLOR CODED:** for quick size selection. **METAL BALL:** for easier operation.

Slotted: 0.08"x2.9", 0.10"x2.9", 0.12"x2.9", 0.14"x2.9", 0.16"x2.9". Philips: PH#0x2.9", PH#0x2.9", PH#1x2.9". #VTSET11, \$26.99



Torx: #T5x1.6", #T6x1.6", #T7x1.6", #T8x1.6", #T9x2.9", #T10x2.9", #T15x2.9", #T20x2.9". #VTSET12, \$26.99

SET OF 2 PLIERS, TWEEZERS AND 8 SCREWDRIVERS (MICROTIP). 4" long nose pliers. 4" diagonal pliers. 4.9" tweezers. Slotted: 0.05"x1.6", 0.06"x1.6", 0.07"x1.6", 0.08"x1.6", 0.09"x1.6". Philips: PH#000, PH#00, PH#0. #VTSET14, \$49.95



ELECTRONICS BIT SET (19PCS) WITH SCREWDRIVER (MICROTIP). 20-pc precision bit set. Philips: PH#0-0, PH#0. Slotted: 0.08", 0.10", 0.12", 0.16". Torx: #T6, #T7, #T8, #T9, #T10. Hex: 0.06", 0.08", 0.10". Ball: 0.06", 0.08", 0.10". Pozzi: PZ#0-0, PZ#0. #VTSET9, \$26.99

0.08", 0.10". Pozzi: PZ#0-0, PZ#0. #VTSET9, \$26.99

TOOL SET. Ideal for TV sets, communication instruments, optical instruments, cameras, computers, VCRs, telephones, etc.

Swivel-headed cap. Black oxidized tips for greater durability and accuracy. **PRECISION SCREWDRIVERS - Philips:** PH#1-1, PH#1-2, PH#0-2. socket: 0.12", 0.16", 0.20". Hex: 0.06", 0.08", 0.10". Slotted: 0.04", 0.06", 0.08", 0.09", 0.12", 0.15". #VTSET5, \$4.50



10-PC SCREWDRIVER SET. The bitholder has a holder for bits on both sides. Comes with 10 bits: 2 x slotted, 2 x philips, 3 x hex and 3 x torx. #VTTS2, \$3.00



PLACE YOUR ORDER OVER THE WEB AT FAIRADIO.COM

Bit Sets



Consists of the following:
Philips bits: PH.0, PH.1, PH.2 (5x), PH.3; Pozzi bits: PZ.0, PZ.1, PZ.2 (5x), PZ.3; Square bits: S0, S1, S2, S3; Flat bits: 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8mm; Antenna remover bits: 4, 6, 8, 10; Torx bits: T8, T10, T15, T20, T25, T27, T30, T40, T45; Tri-wing bits: 6, 8, 10; Torx with center bits: T8, T10, T15, T20, T25, T27, T30, T35, T40; Four-wing bits: 1, 2, 3, 4; Metric hex bits: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8mm; Clutch bits: 1, 2, 3; Fractional hex bits: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4; Dodecagonal torx bits: M5, M6, M8; Metric hex with center bits: 2, 2.5, 3, 4, 5, 6mm; Fractional hex with center bits: 5/32, 9/64, 1/8, 7/64, 3/32, 5/64; 1 wing nut driver; 4 extension bits - socket bit holder 1 pc, magnetic bit holder 1 pc, 1/4" sq. x 1/4" x 2" extension 1 pc, 1/4" sq. x 1/4" x 1" extension 1 pc. #VTBT11, New, \$11.80

SECURITY BIT SET / 33 PCS.

Contents - Torx: #T8, T10, T15, T20, T25, T27, T30, T35, T40. Hex: #5/64", 3/32", 7/64", 1/8", 9/64", 5/32". Hex: #2, 2.5, 3, 4, 5, 6. Tri-wing: #1, 2, 3, 4. Fork: #4, 6, 8, 10. Four-wing: #6, 8, 10. Magnetic bit holder: 1/4" hex. #VTBT5, New, \$4.80

BIT SET / 33 PCS. Contents - Hex: #2, 2.5, 3, 4, 5, 6. Torx: #T10, T15, T20, T25, T30, T40. Slotted: 3, 4, 5, 6, 7. Philips: 1 x PH0, 2 x PH1, 3 x PH2, 2 x PH3. Pozzi: 2 x PZ1, 3 x PZ2, 2 x PZ3. Magnetic bit holder: 1/4" hex. #VTBT6, New, \$4.80

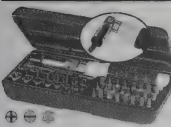


- M5, M6, M8
- C1, C2, C3
- 1/8", 3/16"
- 2mm X 2mm X 2mm
- S0, S1, S2, S3
- 1, 2, 3, 4, 5
- 0, 1, 2
- Wing nut driver
- 6, 8, 10
- PZ0, PZ1, PZ2
- 4, 6, 8, 10, 12

- T-5, T-5, T-6, T-7, T-8, T-10, T-15, T-20, T-25, T-27, T-30, T-40
- 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"

1 Piece 1/4" x 60mm magnetic bits holder, 1 Piece bits holder socket, 1 Piece socket adapter, 1 Piece ratchet screwdriver. New, #800-081, \$20.99

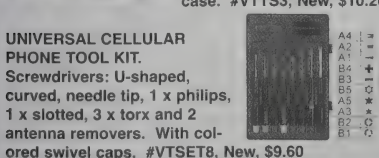
Tool Kits



41-PC TOOLSET. Head can be set at an angle of 0°, 45° or 90°. 38 bits: 14 hex sockets, 16 torx bits, 3 slotted, 3 philips and 2 S-bits. With plastic carrying case. #VTT33, New, \$10.20

UNIVERSAL CELLULAR PHONE TOOL KIT.

Screwdrivers: U-shaped, curved, needle tip, 1 x philips, 1 x slotted, 3 x torx and 2 antenna removers. With colored swivel caps. #VTSET8, New, \$9.60



NTE Solder Gun



NTE Solder Gun, 100 watts heats up to 750F in 25 seconds; 140 watts heats up to 950F in 40 seconds. Large dual heat trigger switch for low/high watt. Temperature control. Long-reach tip and sturdy heating element connectors. Pre-focused light. 6 foot, 2 wire cord. #J-100, New, \$29.99

Two pack of nickel plated copper replacement tips for J-100 solder gun, #JT-104, \$3.87

ECG Soldering Irons

Electric Corded Soldering Irons. Each of the soldering irons listed below feature a long life tip (nickel-iron plated copper) and a cool grip rubber handle.



25 Watt - Tip temperature 464F, #J-025, \$8.83

Replacement conical tip for J-025 (nickel plated copper); 2 tips/package. #JT-101, \$1.57

60 Watt - Tip temperature 860F, #J-060, \$11.97

Replacement conical tip for J-060 (nickel plated copper); 2 tips/package. #JT-102, \$3.99



Electric Corded De-Soldering Irons, 45 watt, Temperature 788F, Long life tip. #J-045-DS, \$16.33

Butane Torch Micro-Jet. Features the following: Auto Ignition, Child safety lock, Instant 2500F micro flame, Powered by a refillable butane cartridge (included). #J-300, \$14.92

Two pack butane replacement cartridge for J-300. #JT-004, \$2.49



Kester Solder Supplies

Pocket Pak .031 Dia. 0.5 oz. #83-4000-0000, \$3.48

Elec. Silver Solder, Box 0.35 oz. #83-7145-0415, \$3.75

Kwik-Draw .050 Dia. 1.3 oz. #83-3000-0000, \$4.98

50 watt Solder Station



Soldering Station 50 watt 374-896F, Manual temperature setting, Electronic temperature control, Power-on LED indication, With ground output, Heater power for soldering iron is 50 watt. Requires 115VAC 60Hz. 7 1/4" x 3 1/32" x 3 1/2", 4 lbs sh. New, #VTSS5U, \$23.99; Spare bit, #BIT55, \$1.30

Soldering Station with LCD & Ceramic Heater 48W 150 - 450C, Manual temperature setting. LCD display with digital temperature scale. Temperature preset on LCD display. With on/off switch. Ceramic heating element with temperature sensor. Standard tip included. Maximum heater power for soldering iron is 48W. Temperature range: 302 - 842F. Low-voltage iron: 24VAC. 7.3" x 4" x 6.7", New, #VTSS40NU, \$89.95

Spare Bit for above: #VTSS40N/SPB, \$1.80

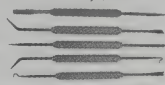


Soldering Tools



"Helping Hands" Soldering Aid with magnifier. Table top, weighted base. Multi-dimensional adjustment capability. Alligator style clips for holding subject work. #VTHH, \$5.60

6 Pc. Soldering Aid Set. 6 Double-ended picks and brushes. #VTSA, \$8.40



POWERFUL DESOLDERING PUMP.

Teflon-nozzle. 10.8" long. #VTD1, \$3.80

EXTRA-POWERFUL DESOLDERING PUMP. Teflon-nozzle. 13.2" long. #VTD2, \$3.40

DESOLDERING PUMP WITH ANTISTATIC TIP. 7.5" long. #VTD3, \$6.80

Spare bit, #BITVTD3, \$3.20

H.Q. DESOLDERING PUMP. Aluminum body. 6.4" long. #VTD5, \$5.60; Spare bit, #BITVTD5, \$1.60



ECONOMIC SOLDERING IRON STAND. With cleaning sponge. #STANDLC, \$3.40

Radiosondes

VAISALA RADIOSONDE, ultra-light disposable transmitter (400 MHz approx) is designed to be carried aloft by weather balloon and transmit data for air temperature, barometric pressure and humidity to a ground station. Consists of circuit board, dipole antenna, and trailing wire. Requires 9 V battery. Cute experimenter item! 12.5"H as shown; 3 lbs sh. #RS80, NEW, \$12 ea; \$5/\$50.00

Radiosonde mfg by VIZ, transmits on 403 MHz RFD modulated signal; includes battery and separate antenna assy, transducer polishing cloth, baroswitch pressure calibration chart, and instructions. 4.8 x 3.8 x 12.3, 4 lbs sh. #ML659, Unused, \$14.95

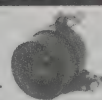
AMT-4 Radiosonde Modulator originally was raised by a balloon into the sky to measure atmospheric conditions. Comes w/ barometric unit only. Atmospheric pressure range 1060 to 5 mb(millibars) Resistive temperature element temperature +60 to -90 d C. With schematic. #MD-147, Unused, \$10.95

Newer version of above. No data, but expect the ranges to be about the same. #MD-210, Unused, \$10

Original manual AMT-4A. #MM-AMT-4A, \$18.00

Motorized Lens

MINOLTA MOTORIZED LENS, focal length 3 mm with 6 mm zoom assembly; probably used in copy machine. Front coated lens diameter 60 mm; rear 15 mm. Focus and zoom mechanism each has small DC gear motor which operates at about 30 RPM @ 5 VDC or 60 RPM @ 10 VDC. 5.5x5.5, 3 lbs sh. #LENS-36-98, Unused, \$23.00; 3 / \$60.00



MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

Peltier Device



PELTIER THERMO-ELECTRIC COOLING MODULE 3A 15.4V 149F. Melcor type: CP1.0-127-06L. I max.: 3A.

Delta T max.: 65°C. voltage: 15.4V. Q max.: 25.7W. Number of couples: 127. Size: 1.2" x 1.2" x 0.14". 1 lb sh. #PELTIER1, New, \$16.00

PELTIER THERMO-ELECTRIC COOLING MODULE 6A 15.4V 153F. I max.: 6.0A. Delta T max.: 67°C. Voltage: 15.4V. Q max.: 51.4W.

Number of couples: 127. Size: 1.6" x 1.6" x 0.15". 1 lb sh. #PELTIER2, New, \$16.40

Dehumidifier Control



HONEYWELL DEHUMIDIFIER CONTROL as used in home dehumidifiers. Plastic element tape senses humidity and "opens" normally-closed 120 VAC contacts; has variable control.

1.8x4.5x1, 1 lb. #H46A1103, unused, \$3.50

X-10 Controller

Leviton Manual Controller.

Used to control light and appliance modules. Compatible with Radio Shack and Home Safe remote devices. Can control 256 "X10" device codes. Unit has 16 Unit Code Buttons. Also, has 6 Command Keys: On, Off, Bright, Dim, All Lights On, and All Off. The controller is equipped with a key-operated lock-out switch that can be set in the "ON" or "OFF" position. The controller will transmit command signals to modules in your control system only if this switch is keyed to the "ON" position. Key pad mounted in sturdy steel case. Requires 120VAC 60Hz. 8.3x6.7x4.5, 7 lbs sh.

#X10-6242, Unused, \$12.00 ea, 2 / \$21.00, 4 / \$37.00

Weaver D6 Scope



Quality 6 power scope fits common rifle mounts.

Unfortunately scope is without cross-hair. Still a nice low-cost spotting scope! 12.3" long, 2lbs. #SCOPE-D6-U, Used, \$7; #SCOPE-D6-UN, Unused, \$14

Grab Box

ASSORTMENT of used and unused commercial and government electronics parts such as assemblies, motors, coils, transformers, chokes, circuit boards, capacitors, resistors, and other usable items. Packed in 50 lbs cartons: #GRAB-ASST, \$14.00 ea; 2 / \$24.00

Allow for shipping charges!!



Matched Meters & Rheostats

"Loaded" with prime "clean" parts for DC power projects!

Panel includes:

- * 0-30 VDC METER.
- * 0-30 DC AMMETER.
- * 4 ea 50 MV SHUNTS.

- * 4 RHEOSTATS: 2 ea 225 W 3 ohms, 2 ea 150 W 2 ohms. * 12 Circuit Breakers: 4 ea 32 VDC 8 amps

- 8 ea 32 VDC 20 amp. * 12 ea 1N1184 DIODES.

- * 4 ea 2.4" dia KNOBS and other parts. Panel is sold

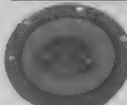
"less its On-Off and 4 STA selector switch.

18.8x23x6, 30 lb. #DAV-LCP, 2 for \$75.00

Manual Repro for above, #MM-DAV, \$12.00



Ring Magnet



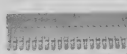
3.5" dia x 5/16" thick MAGNET with 1.9" dia open inner circle lifts about 8 lbs. 5" dia metal casing has mount flange to protect and isolate magnet; two wires attach to spring-loaded contacts. Use as magnetic antenna mount or in robotic, audio or science projects; 2 lb #MAG-S91, \$3.50; 7/\$12.00

Electronic Ignitor

Fenwal Automatic Electronic Ignitor. Input 12 VDC. This looks like an ignitor for an oil furnace as it puts out a HV spark. Maybe neat for experiments. BE CAREFUL. 5.25 x 4.75 x 3 overall. 3 lbs sh. #05-159901-003, Unused, \$16.95



Finger Stock



18" long x 1/2" ht strips of finger stock. Each individual finger has a width of 1/15" and a ht of 5/16". #FS-18, Unused, \$7.95 ea; 3 / \$20.00

Experimenter's Paradise

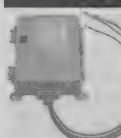
Motorola Control Receiver???

Great experimenter item. We have seen them in the past in some cities at intersections and believe their purpose was to intercept traffic signals when emergency vehicles needed to pass. Transistorized receiver covers 139.65 MHz with a five section pre-selector, crystal controlled oscillator and Vibraproder tone detector which allows a SPST relay to be actuated by a tone in 600 to 800 Hz range. SPECIFY if tone-match required. Receiver is housed in a plastic protective case. Power required 24 VAC. Has internal transformer and power supply. 7.2" dia. x 6" Ht, 5 lbs sh. #15D82032, \$8.95 each 4 for \$29.95

#SCH-15D82032, Schematic Info, \$8.50



Control Receiver



Scientific Atlanta Power Control Receiver Model DCU-1051B-01-00-S Series DCU-G-1530.

Originally used by power companies to allow radio control of power usage. The units have receivers in the 150 mhz range as well as a 6 VDC contractor

rated for 240 VAC 30A resistive. They are programmable and will work on the General Electric code format and/or the SA-105. Power transformer 240 VAC secondary approx 6 Vac. The weather resistant plastic case with gasket and snap closure is excellent for outdoor projects. Has molded on wall mounting brackets. Internal dimensions 9.5x7.4x3, 5 lbs sh. #DCU-1051B, Unused \$17.00 each; 3/\$38.00

Military Flashlight

MX-991/U FLASHLIGHT official rugged right angle military type made in USA.

Operate from two "D" cell batteries (not included). Clear diffuser, red signal, and blue spare lenses store in handle; metal belt clip. O.D. green plastic; current issue, 8.3"x2" Lx2" H. #MX-991, New, \$10.50



Choke Cable



Six foot choke cable with knob with 2 Inch pull. 2 lbs shipping. #CHEX-CBL, \$6.00

Neoprene Gloves



Stanzol Knit-Lined Neoprene Gloves. Multi-purpose chemical, abrasion and temperature resistant liquid-proof hand protection with durability and flexibility. Soft interlock knit lining insulates from heat and

cold, absorbs perspiration, and provides easy on/off. Neoprene coating resists a broad range of chemicals. Non-slip "roughed" grip. Mfg by MAPA Professional. New, \$5.25 pair; 4 pair for \$14.00

Please specify model number when ordering. Sizes available:

Small: #S-432;
Large: #L-408;

Medium: #M-420
Extra Large: #XL-348

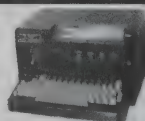
Teletypewriter

AN/UGC-129 Tactical

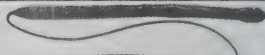
Teletypewriter, full duplex teletypewriter has 16K RAM and QWERTY keyboard with Edit, Mode Select, and Memory. Printer speed 120 CPS: 69-80 character line, single or double line feed. 64-character ASCII subset: ITA5 or Baudot codes. 8 baud rates 45.5 to 2400. Uses paper rolls 216 mm W x 127 mm dia friction feed, single or multiplicity. Requires 115/230 VAC 47-400 Hz; connectors not available. 9.5x15 x18.5, 52 lbs. #UGC-129, Used reparable, \$59.50

Manual repro f/ later model (useful),

#MM-UGC-129, \$40 w/ set



Hydrophone



U S Navy NT-51038 Hydrophone, unused in wood box. Frequency range 1 - 20000 hz with eight Rochelle Salt Crystal doublets, each about 3 x 2 x 1 inch. Matching transformer for 25 ohm output.

Rubber casing with castor oil immersed crystals approx 56 inches by 2.5 inches in diameter. The castor oil was used to couple the crystals to the water. Castor oil has deteriorated. Nine foot cable with two steel strain wires and two signal wires. A great experimenter item with a potential for listening to fish ???, boats, ships etc. Unused old stock in wood box. 29 lbs sh. #NT-51038, \$25.00

Aircraft Gyros



LEAR 3-AXIS RATE SENSOR with three #2157HB rate gyros; 3.4x6.4x6, 9 lbs sh. Lear mfg. #2162C, \$200.00

Metal Detectors



Metal Detector with Audio Discriminator. Hunt for coins, relics, jewelry, gold and silver just about anywhere. 3-tone audio discriminator. Headphones output. VU-meter. Waterproof search

head (8" Ø). Adjustable stem. Requires three 9V-battery (not included). Drop shipped from Texas.

#CS150, List Price, \$147.40; Our Price, \$102.95

Metal Detector with LCD Display.

7.9" waterproof search head.

Large LCD display. Target ID.

Depth readout. Sensitivity control.

Variable discrimination.

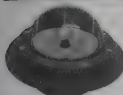
Variable notch. 3-tone audio discrimination. Low-battery indicator. 1/8" headphone jack. Requires two 9V-battery (not included). Drop shipped from Texas.

#CS200, List Price, \$277.40; Our Price, \$178.69



EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM

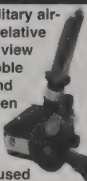
Ritchie Compass



Ritchie Compass RU-90 has 5 degree increments. High-visibility blue 3" dial with extra large numerals. Flush mount sailboat racing style. Has 45° lubber lines and internal gimbal. Black in color. 4 lbs sh. #RU-90, Unused, \$150.00

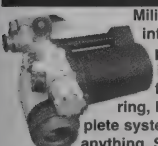
Aircraft Sextant

Sextant w/ periscope used in larger military aircraft to determine nightflight position relative to the stars. Has eyepiece with cup to view through right angle periscope with bubble level. Controls increase bubble size and adjust lens diffuser plus filters red, green & polarized. Also mechanical timer, 3-digit 100-turn counter dial, & transit case. Requires 28 V AC-DC for lights; 8"Wx13"Hx5.3"D, 23 lb #MS28011-1F, used w/ fiberglass case, \$69.50



#MS28011-NB, used, no case, no bubble, \$35.95

Gun Sight



Military Optical Gun Sight. No information on this sight. No part numbers. It has a 4 inch lens that looks like it fits into a fixture. Eyepiece with focus ring, but because this is not a complete system we are unable to focus on anything. See fairradio.com/optic.htm for more photos. 10.5x10.9x7, 25 lbs sh. #GUN-S, Used good condition. \$99.00

60 Second Timer

RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3" dia plastic case; 1 lb. sh. #56414, Unused, \$3.00 each.



TV / FM Attenuator



75 ohm TV/FM Attenuator by Blonder Tongue Labs stock #4890. 0-890MHz with two F connectors and adjustment for attenuation. #4890, Used, \$10.00

Clock Mechanism

Quartz Clock Mechanism, for your self-made clock or as a replacement for a damaged clock. With suspension clip. Requires one AA-battery (not incl.). 2.2" x 2.2" x 0.6", #WCM1, \$1.60



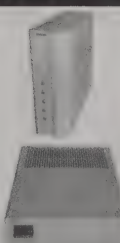
Quartz Clock Mechanism with Alarm Function, Integrated buzzer with on/off switch. Comes with a set of clock hands. Requires one AA-battery (not incl.). 2.2" x 2.0", #WCM2, \$6.40

Cable Modems

Cable Modems removed from service, no info. Made by Hybrid Networks. May be pulls or defective pulls, we do not know. Each has what looks like tuner module and crystal oscillator. Includes wall power supply.

#CCM201, \$7.50; #N-202X, \$8

MODEM 56K EXTERNAL PHONE ZOOM w/ wall power supply #2386, \$4.00



Test Equipment Blow Out!!

All test equipment listed below is used/reparable

AIL 777 UNIVERSAL RADIOMETER \$150.00
ALLISON LABS HP LO FILTER \$175.00
AUSTRON 6014 FREQUENCY MULTIPLIER \$175.00
BALLENSTEIN 323 TRU RMS AC VOLTMEETER \$65.00
BELL&HOWELL TSC-2000 SYSTEM CALIBRATOR \$395
BERTAN 205A-10 10 KV POWER SUPPLY \$240.00
BERTAN 2010-05R 5 KV POWER SUPPLY \$240.00
BIRD 5755 5KV 50 Ohm load for hardline \$250.00
BOONTON 740 CAPACITANCE BRIDGE \$150.00
BOONTON 75A-58 CAPACITANCE BRIDGE \$150.00
BOONTON 76A 1 mhz AUTOMATIC CAPACITANCE BRIDGE \$395.00
BOONTON 92AD RF MILLIVOLT less probe \$45.00
BOONTON 93A-D TRUE RMS VOLTMEETER \$45.00
BOONTON 230 SIGNAL GENERATOR POWER AMPLIFIER \$175.00
Collins 476H-1 Test Set \$275.00
Collins 478H-1 Test Set & Collins 413F-1 Power Sup, \$275
COLLINS 618M-1 Transceiver \$125.00
Collins 7034-AD4 Test Generator \$250.00
CONFERENCE BRIDGE TELEPHONE TA-1008/TSC-62 \$225
CURRY MCLAUGHLIN & LEN SMS-1 \$175.00
CUSHMAN CE-21 FREQ SELECTIVE LEVER MTR \$175
CYBERMASTER DOWNSTREAM 2000 CMD200 \$65
DATA 1/0 SYSTEM 19 EPROM PROGRAMMER \$250
Data Check 8300A-W Flitter Meter \$150.00
Data Check 8300B-W Flitter Meter \$175.00
Daytronic 300D transducer amplifier indicator, w/ type V 10 volt output module, type71 high sensitivity transformer input module \$125.00
DOVETRON MPC1000 RTTY \$95.00
EATON NM-67 EMI FIELD INTENSITY MTR 1-18Ghz \$1400
EDG 501 PROGRAMMABLE VOLTAGE STANDARD \$75
EKG PARC 131 Preamp, \$125.00
Electrac 220R Tracking Filter \$75.00
Electrac 415A Phase Lock Demodulator Multiplier \$145
ELECTRO METRICS SPD-125 SPECTRUM DISPLAY w/PP125 and Dumont 74-14 Time BASE \$150.00
EXACT 506 Sweep Function Generator, \$125.00
FEL 133A Phase Lock Synth, \$195.00
FLUKE 332A DC VOLTAGE STANDARD \$450.00
FLUKE 332D/AB VOLTAGE STANDARD \$495.00
FLUKE 343A DC Volt Calibrator \$195.00
FLUKE 405AB HIGH VOLTAGE POWER SUPPLY \$295.
FLUKE 760A Meter Calibrator \$325.00
FLUKE 893A AC DC DIFFERENTIAL VM \$50.00
FLUKE 2201 SCANNER \$50.00
FLUKE 5200A PROGRAMMABLE AC CALIBRATOR \$300
FLUKE 6039 Freq. Synth. \$325.00
FLUKE 7600A SCANNER \$50.00
Freed 1620A Megohmmeter \$325.00
Freed 1620R Megohmmeter \$325.00
GEORSPACK V-12 Receiver Phase Comparator, \$150
Gertsch 480 AC DC Ratio Standard, \$195.00
Gertsch RT-9 Ratio Transformer \$150.00
GERTSCH Synchro Standard SS-2A \$150.00
GR1211C Unit Oscillator 0.5 - 50 Mhz \$50.00
GR 1215B 50 - 500 Mhz Oscillator \$65.00
GR1218B 900 - 2000 Ghz Oscillator \$75.00
GR 1232 TUNED AMPLIFIER NUL DETECTOR \$65.
GR 1264B Modulating Power Supply 200-300VDC 50mA 6.5VDC 1A \$150.00
GR 1310 A 2-2mhz OSCILLATOR \$50.00
GR 1362 220 - 920 Mhz Oscillator \$65.00
GR 1396B TONE BURST GENERATOR \$125.00
GR1432K Decade Resistor 1111 ohms \$125.00
GR1432L Decade Resistor \$125.00
GR1432N Decade Resistor 11111 \$125.00
GR1432Q Decade Resistor 11100 \$125.00
GR1433 Decade Resistor 99999 \$125.00
GR1450 Decade Attenuator \$95.00
GR1454A Decade Voltage Divider \$95.00
GR1632A Inductance Bridge, \$175.00
GR 1651A BOLOMETER BRIDGE \$75.00
GUILDLINE 9120 POTENTIOMETER, \$400.00
GUILDLINE 9160G POTENTIOMETER, \$299.00
GUILDLINE 9577 PRECISION DIGITAL VOLTMEETER, \$500
GUILDLINE 9719 VOLT RATIO BOX \$150.00
HARRIS 9100 Facility Control \$69.50
HP-201C OSCILLATOR, \$85.00
HP-214A PULSE GENERATOR \$150.00
HP-400E, ANALOG AC VOLTMEETER, \$69.50
HP-400GL ANALOG AC VOLTMEETER, \$95.00
HP-431C POWER METER \$75.00
HP-1206B OSCILLOSCOPE \$150.00
HP-2590B MICROWAVE CONVERTER \$125.00
HP-3110A FUNCTION GEN \$125.00
HP-3336B SYNTH LEVEL GENERATOR \$395.00
HP-3437A SYSTEM VOLTMEETER \$100.00
HP3476B Digital Multimeter \$250.00
HP 3490A Multimeter, \$150.00
HP-3495A SCANNER \$95.00
HP-3575A GAIN PHASE METER \$375.00
HP-37101A IF BB TRANSMITTER \$125.00
HP-4204A 10Hz-10MHz Digital OSCILLATOR \$250.00
HP-4437A ATTENUATOR \$99.00
HP-4815A VECTOR IMPEDANCE MTR NO PROBE \$295
HP-5036 Microprocessor Lab in case \$175.00

HP 5110B Synthesizer Driver, \$85.00
HP-5180A WAVEFORM RECORDER \$450.00
HP 5300B measuring system counter \$100.00
HP-5315B 100 Mhz Universal Counter \$175.00
HP 6522 HV Power Supply 2000 V 10 Ma \$395.00
HP-8056A FILTER SET \$295.00
HP-8402B CALIBRATOR \$75.00
HP-8614A SIGNAL GEN. 8-2.4GHz \$250.00
HP-8615A SIGNAL GEN. 1.8-4.5GHz \$275.00
HP-8690B Sweep Oscillator less plug in \$95.00
HP-8708A Synchronizer \$125.00
HP 8743B Reflection Transmission Test Set 2-12.4 GHz \$195
HP-8900B PEAK POWER CALIBRATOR \$95.00
HP-37461 MONITOR DISPLAY \$150.00
HP-54600A OSCILLOSCOPE \$450.00
HONEYWELL Portable Potentiometer Rubicon \$65.
HONEYWELL 1630 KELVIN DOUBLE RATIO BRIDGES \$250
HUGHES STX-151 Microwave Transmitter \$295.00
KEPCO 1500 VDC 10 Ma Power Supply \$85.00
KROHN-HITE 30N-2-20KC BANDPASS FILTER \$95
KRON HITE 4141R Oscillator \$200.00
L&N 2665 AYRTON SHUNT \$95.00
L&N 4232 GUARDED WHEATSTONE BRIDGE \$100
L&N 4385 SHUNT BOX \$75.00
L&N 4735 Wheatstone Bridge \$175.00
L&N 4737 GUARDED WHEATSTONE BRIDGE \$225
L&N 7553-5 K-3 UNIVERSAL POTENTIOMETER \$195
L&N 7592 VOLT BOX \$95.00
L&N 8687 Volt Potentiometer \$125.00
L&N 8690-2 Millivolt Potentiometer \$99.50
L&N 8691-2 MILLIVOLT POTENTIOMETER \$150.00
L&N 8692 TEMPERATURE POTENTIOMETER \$150.
L&N 8693-2 TEMPERATURE POTENTIOMETER \$150
L&N 1087722 10000 OHM VOLTAGE DIVIDER \$125
L&N ABS 100000 Ohm Voltage Divider \$150.00
MARCONI TWELVE CHANNEL FM7816 \$125.00
MB 2250MA POWER AMP \$125.00
Mil ARM-41 / ARC-41 Radio Test Set \$295.00
Mil C10196/USM 403 DISPLAY \$475.00
Mil OA 1378/GRC TRC-27 4.4-5Ghz Dish Antenna and 20 ft Mast Kit \$295.00
Mil TS-419 Signal Generator 850-2100 MHZ \$165
Mil TS-488 X BAND ECHO BOX \$250.00
Mil TS-1775 RELAY Test Set \$45.00
Mil TS-2585 / AN/ARM-113 Radio Test Set \$325.
Mil TS-2669 Envelope Delay Distortion Measuring \$175
Mil UPM-137 JFF TEST SET \$699.00
Mil USM-144/CM212 \$125.00
MONROE ISO Probe 144S-4 Electrostatic Voltmeter 144S-4 \$295.00
NH RESEARCH \$7220 2 Phase Power Source \$125.
NH RESEARCH \$F2276 2 PHASE SINE WAVE WHEEL SUPPLY \$200.00
NORLIN A1007-1 RF Amplifier \$155.00
NORTH ATLANTIC 214C Phase Angle \$395.00
NORTH ATLANTIC 225 Phase Angle \$275.00
NORTH ATLANTIC 226 Phase Angle Voltmeter, \$150
PHILCO 128A 128A VTT-2 Attenuator ratio transformer \$125.00
POLARAD VECTOR ANALYZER ZPV \$750.00
PRECISION CALIBRATION KIT WR137 5.85-8.20GHz C340A1 C344A C301 6625-20-318-5425 4000
ROCKLAND 852 DUAL HILTO FILTER \$395.00
Rockland 1500 Remotely Programmable Freq Synth \$295
Rockwell 7303A-40 Test Signal Generator VFO \$195
SIGMA 4500 Relay Test Set \$45.00
SINGER GERTSCH RT-9 Ratio Transformer \$250.00
SINGER STODDART NM-17/27 EMI FIELD INTENSITY METER \$995.00
SUNAIR GSB-900RU RECEIVER NO CONTROL \$495
SYSTEMS RESEARCH LABS SRL 259F High Pass Low Pass filter \$175.00
TEK 172 Test Fixture \$150.00
TEK 434 STORAGE OSCILLOSCOPE \$225.00
TEK 520 Vector NTSC Scope \$195.00
TEK 575 TRANSFORMER COUPLER TRACER \$295.00
TEK 506A MONITOR DISPLAY \$145.00
TEK TSG3 PLUG-IN'S FOR TEK 1410 \$150.00
TELEMET Demodulator 4501 \$75.00
TEXSCAN RS-50 SWEEP GEN 0-500 MHZ \$175.00
TEXSCAN VS-50 SWEEP GEN 0-500 MHZ \$175.00
TRACOR 599 Tracking Receiver 599-303 AGC Phase 599-204 Receiver 599-502 Power Supply \$495.00
VTM/XDCR STE/CE-R Vehicle Test Kit \$595.00
WATKINS JOHNSON FDM DEMODULATOR \$395.00
WETEK 143 20 MHZ FUNCTION GEN. \$99.00
WAVETEK 157 PROGRAMMABLE WAVEFORM SYNTHESIZER \$225.00
WAVETEK 159 FUNCTION GENERATOR \$375.00
WAVETEK 180 SWEEP FUNCTION GEN \$150.00
WAVETEK 182 Function Gen Sine Square Triangl \$75
WAVETEK 187 4MHZ PULSE GENERATOR \$99.00
WAVETEK 278 Function Generator \$325.00
Wavetek 430 Transmission Multimeter \$99.00
WAVETEK 750 Phase Meter 10Hz-2MHz \$395.00
Wavetek 1018B Log/Linear Peak Power Meter \$595
WEST INSTRUMENTS 9B Pyrotest, \$125.00

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

500 MHz H-P Counter



HP-5345A ELECTRONIC COUNTER, solid-state 9-digit plug-in type measures DC to 500 MHz channels A & B

without any plug-in. Function Select: Plug-In, Freq A, Period A, Time Int A to B, Ratio B/A, Start Stop. Channel controls 50 or 1 M ohm input, x1/x10 Atten, AC-DC, and Level. Requires 100/120/220/240 VAC 48-66 Hz; 5.3x 16.8x19.5, 42 lb sh. #HP-5345A, Used-reparable, \$295.00

HP-5328A ELECTRONIC COUNTER, solid-state modular design; counts upto 512 MHz on 9-digit LED display. 10 MHz reference oscillator, input for external freq-standard. Universal 100 MHz Module controls Channels A & B functions LEVEL, AC-DC select, ATTN 1-10-100, and Marker output. Sensitivity 25 MV to 40 MHz; 50 MV 40-100 MHz. Channel C module provides 5-512 MHz range, 15 MV rms sensitivity. Trigger fixed; 50 ohm impedance. With Option 011 HP-1B computer interface & manual repro. Requires 100/120/220/240 V 48-66 Hz; 3.5x 18.5x19, 28 lbs.

#HP-5328A-UR, Used-Reparable, \$235.00
#HP-5328A-CH, Checked, except for HP-1 computer interface, \$525.00

18 GHz Counter



HEWLETT-PACKARD 5340A FREQUENCY COUNTER, covers 10 Hz to 18 GHz with automatic

amplitude discrimination feature allowing counter to select largest signal in 250 MHz-18 GHz spectrum. Has 8-digit display. Sensitivity -30 dBm, 10 Hz-500 MHz; -35 dBm 500 MHz-10 GHz; -25 dBm 10-18 GHz. Input impedance 50 ohms; 10 MHz crystal time base. Has Self-Check and N and BNC input connections. Requires 115/230 VAC 48-66 Hz; 3.5x 16.8x18.8, 31 lbs sh. #HP-5340A, Used-Checked, \$1195.00

HP-5245L Counter

HP-5245L COUNTER, 7-digit predecessor of 5345A; measures upto 50 MHz without plug-ins. 100 mv sensitivity; gate 1 usec to 10 sec in decade steps.

Units at least "test" count. 5.3x16.8x18.3, 34 lbs sh. #HP-5245L, Used-Reparable without plug-in, \$79.50

Manual repro, #MM-HP-5245L, \$23 w/set purchase.
#HP-5253B Plug-in, 50-500MHz, \$60.00
#HP-5257A Transfer Osc. plug-in, 0.05-18 GHz, \$175

3-in-1 Lab Unit



3-in-1 Lab Unit, Multimeter, Power supply, and Soldering iron.

DIGITAL MULTIME-

TER - 3 1/2 backlit LCD, Automatic polarity indication, DC voltage: 200mV to 600V in 5 steps, AC voltage: 200V and 600V, DC current: 200µA to 10A in 5 steps, Resistance: 200 ohm to 2Mohm, Diode, Transistor and Continuity Test, Data-hold function and buzzer. REGULATED POWER SUPPLY - Selectable output voltages: 3 - 4.5 - 6 - 7.5 - 9 - 12Vdc, Output current: 1.5A (2A peak), LED overload indication, Output on/off switch, Very low ripple, LED power indication. SOLDERING STATION - Low-voltage iron: 24V, Ceramic 48W heating element with temperature sensor, Temperature range: OFF - 150 - 450C, Lead-free soldering possible, Supplied w/ sponge and spare bit. Great space saver! Drop shipped from Texas.
#LAB1U, List Price, \$193.40; Our Price, \$132.94

Value Priced Multimeter



MINI 3 1/2 DIGIT DMM - 19 RANGES. Automatic polarity indication. Diode and transistor (hFE) test. DC voltage: 200m/2000m/20/200/500V. AC voltage: 200/500V. DC current: 200µ/2000µ/20m/200m/10A.

Resistance: 200/2000/20k/200k/2000k. Basic accuracy: $\pm 0.8\%$ ($\pm 1.0\%$ for 2000k range). Low-battery indication. With manual, test leads, and GP23GA 12V battery. #DVM810, New, \$6.80

20 Range Multimeter

3 1/2 DIGIT DMM - 20 RANGES

- 10A - TRANSISTOR TEST. Automatic polarity function low-battery indication.

Transistor and diode test. DC voltage: 200m/2/20/200/1000V. AC voltage: 200/750V. DC current: 200µ/2m/20m/200m/10A.

Resistance: 200/2000/20k/200k/2000k. Basic accuracy: $\pm 0.8\%$. Overload protection: 250V. Low-battery indication. 2.8" x 5.0" x 1.0" 3 lbs sh. Includes manual, test leads, and a 9V battery. #DVM830, New, \$11.80



23 Range Multimeter



3 1/2 DIGIT DMM - 23 Ranges / 20A.

Has transistor, diode and audible continuity test. DC voltage: 200m/2/20/200/1000V. AC voltage: 2/20/200/750V. DC current: 200µ/2m/20m/200m/20A. AC current: 2m/20m/200m/20A. Low-battery indication. 3.3"x6.5"x1.3" 3

lbs sh. With manual, test leads, holster, and 9V battery. #DVM92, New, \$21.99

Clamp Meter

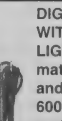
ECONOMIC DIGITAL CLAMP METER, 3 1/2 LCD display with automatic polarity indication. Data-hold function. AC current measurements: max. 1000A.

Insulation test: max. 2000Mohm. Voltage measurements: AC (max. 750V) and DC (max. 1000V). Resistance measurements: max. 20Kohm. DC voltage: 1000V.

Basic accuracy: $\pm 0.8\%$. Input impedance: $> 9\text{Mohm}$. Maximum input: 1000V. AC voltage: 750V. Basic accuracy: $\pm 1.0\%$. Input impedance: $> 9\text{Mohm}$. Maximum input: 750V. AC current: 200/1000A. Basic accuracy: $\pm 2.0\%$. Overload protection: 1200A for 60 seconds. Resistance: 200/20k (insulation test: 20M/2000M). Basic accuracy: $\pm 1.0\%$ ($\pm 2.0\%$ for insulation test). Continuity protection: 500V. Overrange: yes "1". Continuity buzzer: yes. Low-battery indication: yes "BAT". Requires 9V battery. Accessories: manual / test leads / battery / carrying bag. 9.1" x 1.5" x 3.5". 2 lbs sh. #DCM266L, New, \$25.60



Digital Clamp Multimeter



DIGITAL CLAMP MULTIMETER WITH DATA-HOLD AND BACKLIGHT.

3 Ω LCD display with automatic polarity indication. Data-hold and backlight function. DC voltage: 600V. AC voltage: 600V. AC current: 2/20/200A (via transformer jaws). Resistance: 2k. Continuity buzzer. 7.6" x 2.8" x 1.4". 3 lbs sh. Includes manual, test leads, 1 x 12V GP23A battery, carrying bag. #DCM265, New, \$69.50

Economy Multimeter



3 1/2 DIGIT DMM - 10A / HOLD FUNCTION / BACKLIGHT, DMM with automatic polarity function and 3 Ω digit LCD display. Diode, transistor and continuity test with buzzer. Data-hold function and backlight. DC voltage: 200m/2/20/200/1000V. AC voltage: 200/600V. Maximum AC/DC voltage

is 600V. DC current: 200µ/2m/20m/200m/10A. Overload protection: 10A. Resistance: 200/2k/20k/200k/2M. Requires 9V 6LR61 battery (incl.). Comes with protective holster. 2.7" x 5.4" x 1.2". #DVM850BL, New, \$15.99

Temp / Capacitance / Freq

3 1/2 DIGIT DMM - 30 RANGES / 20A / TEMPERATURE / CAPACITANCE / FREQUENCY. Low-battery indication. Overload protection and automatic deactivation. Transistor, diode and audible continuity test. DC voltage: 200m/2/20/200/1000V.

AC voltage: 2/20/200/700V. DC current: 2m/20m/200m/20A. AC current: 20m/200m/20A. Resistance: 200/2k/20k/200k/2M/200m/200M. Capacitance: 2000p/20n/200n/2µ/20µF. Frequency: 20kHz. Temperature: -50C to 1000C. 3.5" x 6.7" x 1.5". 3 lbs sh. With manual, test leads, holster, 9V battery, temp. probe. #DVM890, New, \$49.95



Analog Multimeter



DC voltage 2.5/10/50/250/500V, maximum input 500V, AC voltage 10/50/500V, maximum input 500V, DC current 500µ/10m/250mA, resistance: x1 and x10 with ohm adjusting knob. Basic accuracy $\pm 5\%$. Has battery-check function, and fuse & diode protection.

Requires one AA-battery (included). Comes with manual, test leads and protective holster. 4.7" x 2.4" x 1.2", 2 lbs sh. #AVM460, \$14.40

ME-297 Multimeter

ME-297/USM-223 FET MULTIMETER measures AC-DC volts to 5000 V in sequential ranges 2.5-10-50 to 5 KV, AC-DC 1000 ohm/V or DC 200 ohm/V. Also DC current to 10 amps in full scale ranges 0.25-2.5-10-50-100-500 MA DC and 2.5-10 amps.

Resistance scales X1K-10K-100K-1M-10M ohms. Includes rugged plastic case, 4.5" dia FS=50 ua meter, red-black test leads and front cover. Requires 6-PXB1 1.3 V & 1.3"C batteries (not supplied), 6x7.4x8.8, 7 lb. #ME-297-UR, Used-Reparable, \$40.00; #ME-297-CH, Checked, \$65.95 Units converted so they require six double A and one C battery, #ME-297-CON, Checked, \$110.00 Manual partial repro, #MM-ME-297, \$10.00



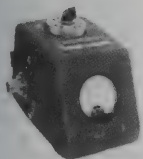
Voltage Tester



Voltage Tester by Ideal. Tester checks for 110 to 550VAC; 110 to 600VDC; 25 to 60Hz frequency; Identifies AC or DC; Checks circuit continuity; Determines DC polarity; Finds blown fuses, grounding and leakage. Comes with the test leads featuring safety shield prod tips. 1.5x2.4x6.4, 3 lbs sh. #61-067, Unused, \$23.00

FOR ORDERING INFORMATION SEE PAGES 19

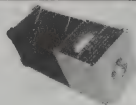
URM-120 Wattmeter



URM-120 Wattmeter measures incident & reflected RF from 10 to 500 watts over 25 to 1000 MHz. Uses two plug-in coupler elements CU-754 (25-250 MHz, 10-50-100-500 W) and CU-755 (200-1000 MHz, 10-50-100-500 W) that fit TS-1285* meter. Max insertion VSWR 1.08 (1.05 for CU-754/755, 500 W range). Power selectable on each coupler. TS-1285* has 3.5" dia meter, 0-10-50 W scale and N conn. W/transit case & manual. 5x4.8x7.3, 20 lbs
#URM-120, (TS-1285 etc), used-reparable, \$210.00

Dummy Load

DA-189/GRC Dummy Load, portable 50 ohm unit operates over 600 to 1850 MHz range @ 40 watts max. Output indicated on 3.5" dia meter; "C" input connection. 4x4x10, 9 lb.
#DA-189, Used, \$35.00



HP-3586B Voltmeter



HP-3586B FREQUENCY SELECTIVE VOLTMETER, measures tone level, idle channel noise, weighted noise at voice & compare to carrier frequency over 50 Hz to 32.5 MHz @ 75 ohm input; voice level over 50 Hz to 100 KHz @ 600 ohms. Amplitude + 20 to -130 dBm; resolution to 0.01 dBm. Option 003 measures phase jitter, noise-with-tone, signal-to-noise with tone ratio and single level impulse noise. Push-button control & entry; HP-1B programmable. NA Bell standard. Requires 100/120/220/240 VAC 48-66 Hz; 7x16.8 x18.4, 62 lbs sh. #HP-3586B, Used-Reparable, \$650.00

Freq Selective Voltmeter

SIERRA 128A FREQUENCY SELECTIVE VOLTMETER for analyzing carrier signals over 10 KHz to 15.1 MHz LSB-AM-USB; utilizes all-transistor frequency lock, Could probably be used as receiver. Separate circuits for MHz and KHz tuning each with controls COARSE, FINE, CURSOR, and input TRACKING SIGNAL BNC jack. Voltmeter has ranges 30 uV to 30 V in 13 steps; DB ranges -90 to +30 DB. Select 75-135-600 ohm termination or 1 MHz calibration; also Selectivity WIDE-NARROW, Main Tune LOCK-CONT, Audio GAIN, and phone jack. Requires 115 V 60 Hz or 28 VDC 220 ma. May have brown or beige front panel; 12x20x15.5, 52 lbs sh. #SIE-128A, Used-reparable w/ book, \$115.00



Vector Voltmeter



HEWLETT-PACKARD 8405A VECTOR VOLTMETER, measures both magnitude and phase over 1 to 1000 MHz in 21 overlapping bands. Also capable of determining insertion loss,

group delay of bandpass filters, complex impedance of mixers and antennas, RF distortion and in-circuit probing. Ranges: 100 uV to 1 V-rms full scale in 10 dB steps. Phase: 360 degrees on 0-center meter with end scale ranges +/- 180, 60, 18 and 6 deg. Band-width: 1 KHz. Requires 115/230 VAC50-400 Hz; 7x16.8x18.4, 36 lbs,
#HP-8405A-UR, Used Reparable w/ manual repro,\$350

URM-127 Audio Oscillator



AN/URM-127A SOLID-STATE AUDIO OSCILLATOR, 20 Hz to 200 KHz in four bands. Metered output 0-10 Vrms into 500 or 1000 ohms in 7 decade ranges. Design accurate +/-2%; stability +/-0.5%. Requires 115 VAC 50-70/380-420 Hz. 7.5x13x4.5, 15 lbs sh. #URM-127A-UR, Used, repairable, \$75.00
#URM-127A-CH, Checked, \$140.00

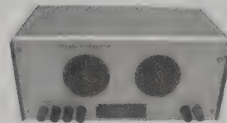
Manual repro for URM-127A, #MM-URM-127A, \$18.00
Manual repro for URM-127, #MM-URM-127, \$18.00

1K ohm Dummy Load for URM-127 & TS-382 oscillators. Has two banana jacks, two terminal posts, and a BNC female connector. #DA-35, Used, \$10.00

UG-514 Adapter Connector for URM-127 & TS-382. Has two banana jacks, two terminal posts, and a BNC female connector. 1 lbs.
#UG-514, Used, \$9.00



Audio Attenuator



The Shallco Attenuator Network is a 600 ohm impedance, decade type, unbalanced "T" circuit direct reading unit providing accurate performance in the low radio frequency spectrum, and usable over the range from 0 to 10 MHz. Accuracy +/- (.5% + .03 dB) of setting when checked at 1KHz. Unit has a range of 0 to 110dB in 1 dB steps and is equipped with 3/4" spacing 5 way binding posts. 7.5x12x5.3, 8 lbs sh. #12851-1, Unused, \$115.00

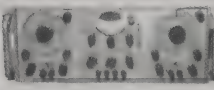
Audio Output Meter

TS-585 OUTPUT METER for audio amps, filters, oscillators. Ranges 0.1-5 mw, -10-+7 dbm; 1-50 mw, 0-+17 dbm; 10-500 mw, +10-+27 dbm; 100-5000 mw +20-+37 dbm read on 3.5" dia meter. Multiplier circuit x0.1, x1, x10, x100 allows input impedances 2.5 to 20000 ohms in 40 steps; 30-10000 KHz response. 8.5x11x5.5, 17 lbs sh. #TS-585, Used, \$79.50;

Manual, partial-reproduction, #MM-TS-585, \$10.00

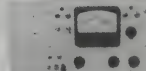


Audio Test Set



MARCONI TF2005 DUAL AUDIO TEST SET, low distortion unit (designed <0.05%) consists of two 20 Hz-20 KHz oscillators, 0.1-111 dB T-attenuator and voltmeter. Output 15 dBm into 600 ohms. Attenuator balanced 75, 150, 600 ohms 1 W max; unbalanced 600 ohms. Voltmeter ranges 1.5, 5, 15, 25 V; dB ranges +10, +20, +24. Requires 115 VAC 50-60 Hz; 7x17x11, 32 lb sh. Less power cord.
#TF2005, Used Reparable with output, \$235.00

Noise Level Meter



Northeast Electronics TTS37BR Noise Level-VU Meter, 1 & 10 dB/step attenuators measures level +23 to -95DBM; Noise 13 to -5 DBRN. Input impeded 900 & 600 ohm circuits balanced/unbalanced, terminating or bridged. Sensitivity -80 DBM @ 0 DB. Has large VU-meter with scales -15 to +3 VU-DB, -5 to +13DBRN. 8.8x19x7.5, 15 lbs.
#TTS37BR, Used Reparable w/book, \$115.00

Light/Sound/Temp. DVM

3 1/2-DIGIT DMM - 20 RANGES - 10A - SOUND LEVEL / LIGHT / HUMIDITY / TEMPERATURE. Automatic polarity function. Low-battery indication. Transistor, diode test, audible continuity test. Overrange protection. Sound level measurements: 35-100dB. Light measurements: up to 20000lux. Humidity measurements: 25%-95% RH. Temperature: -20C to +1300C. DC voltage: 200m/20/600V. AC voltage: 200/600V. DC current: 200u/200m/10A. Resistance: 200/2k/200k/1M. 4.8x2.4x1.6. Includes manual, test leads, and 9V battery. Drop shipped from Texas. #DVM501, New, Regular Price, 103.95; Our Price, \$82.95



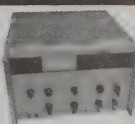
Sound Level Meter

Analog Sound Level Meter, 7 sound level ranges: 50 to 126dB, A and C. Weighting: for sound analysis, fast/slow response: allows intermediate and high level measurements, with battery level indication, RCA output jack, Range: up to 126dB, Positions: 60, 70, 80, 90, 100, 110, 120dB, Load impedance: 1kohm min., Distortion: < 2% at 1kHz 0.5V, Microphone: electret condenser microphone, omnidirectional, directionality increases at higher frequencies, Precision: ± 2dB at 144dB, Weighting: A or C, Response: slow or fast, Output signal: max. 1V deviation at 1kHz for the entire range, Requires 9V battery (incl.). Battery test: OK indication between 7 and 10.5V. 6.3" x 2.4" x 1.7", 2 lbs sh. #AVM2050, \$46.20



H-P Analyzer

HP-312B ANALYZER / FREQUENCY SELECTIVE VOLTMETER, 1 KHz to 18 MHz AM, AM AFC, BEAT, USB, LSB in 18 overlapping bands indicated on 7-digit readout. Synthesizer for tuning phase-locked in 1 MHz steps. Bandwidth: 2000, 1000 or 3100 Hz. Reference level -40 to +20 DBM in 10 DBM steps. Amplitude -60 to 0 DB in 10 DB steps. Impedance selectable 50, 60, 75, 124, 135, 150 or 600 ohms balanced or unbalanced. Audio output > 0.5 V rms into 10K ohm full scale deflection. Recorder output 1 V full scale deflection open circuit. Requires 115/230 VAC 50-400 Hz; 16.8x10.5 x18.8, 51 lbs. #HP-312B, Used Reparable, \$235.00



I-177 Tube Tester



I-177 is a dynamic mutual conductance tube tester designed to provide either REPLACE-GOOD readings or mutual conductance values in micromhos. Cable of checking for Shorts, Rectifier, Gas and Noise. Requires 115VAC 60Hz.

15.4x5.5x8.1, 22 lbs sh. #I-177, Used Checked, \$225.
MX-949 Tube Socket Adapter, Provides more sockets than the I-177 allowing to test the more tubes. 10.6x8.5x3.9, 10 lbs sh. #MX-949, \$99.50

#MM-I-177, Manual for I-177, \$18.00

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRADIO.COM

HP Carrier Test Set



HEWLETT PACKARD 3550A CARRIER TEST SET for field testing transmission line and system characteristics.

Includes solid-state 204C Oscillator, 493B Voltmeter, and 353A Patch Panel described below in transit case. Regulating batteries removed; 8.4x19.3x13.3, 36 lbs sh.

#HP-3550A, Used Repairable, \$189.50
#MM-HP-3550A, Manual repro, \$30.00

HP-204C AUDIO OSCILLATOR, AC line or rechargeable battery operation. Unit provides frequency from 5 Hz to 1.2 MHz in six overlapping ranges. Delivers an output voltage of ± 2.5 V-rms (10 mW or ± 10 DBM) into 600 ohm. Includes Sync Output: > 100 mV-rms into < 100 pF over entire range. 5.1x6.3x8, 9 lbs sh.

#HP-204C, Used Repairable, \$110.00
#MM-HP-204C, Manual repro, \$14.00

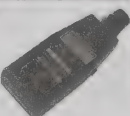
HP-403B AC VOLTMETER, measures 0.001 to 300V-rms in 12 calibrated steps, -60 to +50 DB in 10 DB steps. Response 5 Hz - 2 MHz. Requires 115/230 VAC and four 6 V 225ma batteries in regulating circuit. 5.1x6.3x8, 9 lbs sh.

#HP-403B-LB, Used Repairable, less batteries, \$79
#MM-HP-403B, Manual repro, \$14.00

HP-353A Telephone Patch Panel, 50Hz-560KHz. Output impedance 135, 600, and 900 ohms. Step 600 ohm attenuator. 2 pair of matching transformers primary 600 ohm, sec 135, 600, 900 ohms. 5.1x6.3x8, 9 lbs sh. #HP-353A, Used, \$35.00

Digital Tachometer

RPM-measurements are now safe and accurate. 5-digit LCD displays the exact rpm: 2.5 to 99,999rpm. The last value / max. and min. values are stored automatically. Resolution : 0.05%. Comes with case. Requires 9V battery. Drop shipped from Texas. #DTE6234, New, Regular Price, \$99.00: Our Price, \$79.95



HP Wave Analyzer



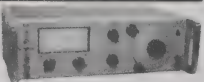
HEWLETT-PACKARD 310A WAVE ANALYZER, a frequency selective volt-meter-receiver covering 1 KHz to 1.5 MHz with bandwidths 200, 1000, and 2000

Hz; resolution 200 Hz/div. Modes AFC-Normal-BFO-USB-LSB-AM. Amplitude ranges 10 uV to 100 V full scale, 16 steps. AFC: dynamic hold-in ± 3 KHz min @ 100 KHz; tracking 100 KHz/sec. Has headphone jack and is operable as VLF receiver. Requires 115/230 V 60 Hz; 10.8x16.8x18.4, 50lb.

#HP-310A, Used-repairable w/ manual, \$150.00

Distortion Analyzer

HEWLETT-PACKARD 331A DISTORTION ANALYZER, measure-



ment of total distortion 0.1%-100 % in 7 ranges over 5 Hz to 600 KHz; harmonics to 3 MHz. 1 KHz filter attenuates frequencies below 400 Hz. Fundamental rejection > 80 DB. Meter indicates 300 uV to 300 V rms in 13 ranges, 10 DB per range. Requires 115/230 V; 16.8x5x15.3, 24 lbs sh.

#HP-331A, Used Checked w/ manual, \$265.00

#HP-334A, Used Checked w/ manual, \$350.00

Wheatstone Bridge



ZM-4 Wheatstone Bridge used to measure DC resistance.

Resistance measurement range 1 ohm to 1.011 M ohms $\pm 0.15\%$; As a resistance substitution box it is adjustable in 1 ohm steps from 0-10110 ohms. The current limit of the resistors is 16-500ma depending on setting. Galvanometer indicates balance in test circuit. Requires three "D" batteries. Also 22.5 to 200 VDC for more accurate readings above 1000 ohms. Can be used as a precision resistor substitution box.

5.8x7.3x8.8, 12 lbs #ZM-4-UR, Used Repairable, \$40.; #ZM-4-UR-L, Used Repairable less galvanometer, \$20 #ZM-4-CH, Used Checked, \$59.50; Manual repro, #MM-ZM-4, \$14.00

LC Bridges

3 1/2 digits LCD with a maximum reading of 1999. Full range protection and overload indication. Worldwide safety standard, high reliability. With data hold and large LCD display. DCV: 0-200m-2-20-200 $\pm 0.5\%$ -1KV $\pm 1.0\%$. ACV: 0-2-20-200V $\pm 0.8\%$ -700V $\pm 1.2\%$. DCA: 0-200m $\pm 1.2\%$ -20A $\pm 2.0\%$. ACA: 0-200m $\pm 2.0\%$ -20A $\pm 3.0\%$. Resistance: 0-200-2k-20k-200k-2M $\pm 0.8\%$ -20M $\pm 1.0\%$. Capacitance: 0-20n-200n-2u-20uF $\pm 2.5\%$ -200uF. Frequency: From 300Hz to 200KHz $\pm 3\%$. Inductance: 0-2m-20m-200m-2H-20k $\pm 2.5\%$. Temperature: C: -40C - 1000C; F: -0F - 1832F. Transistor and Diode test. Audible continuity: < 90 ohm. Requires 9V battery. Comes with test leads, bag, and battery. 7.5" x 3.5" x 1.7", 3 lbs sh.

#VC9805A, List Price, \$149.95; Our Price, \$69.95

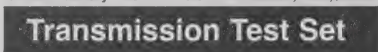


3 1/2 digits LCD display to 1999. High accuracy. Input overload protection. Low battery indication. Low power consumption. In-line push buttons allow one hand operation. Capacitance: 0-2n-20n-200n-2u-20u-200u-1000uF. Capacitance accuracy: 23C $\pm 2C$; < 0.5 uF $\pm 1.0\%$; > 0.5 uF $\pm 2.0\%$. C Temperature coefficient: < 0.5 uF $\pm 0.1\%/C$; > 0.5 uF $\pm 0.2\%/C$. Inductance: 0-2m-20m-200m-2H-20H. Inductance accuracy 23C $\pm 2C$; < 0.5 uH $\pm 2.0\%$; > 0.5 uH $\pm 5.0\%$. L Temperature coefficient: < 0.5 uH $\pm 0.2\%/C$; > 0.5 uH $\pm 0.5\%/C$. Zero Error: C ≤ 5 pF, L ≤ 10 uH. 7.5" x 3.5" x 1.7", 3 lbs sh.

#VC6243, List Price, \$89.00; Our Price, \$62.95

Anemometer

ANEMOMETER. Wind speed measurements in mph, km/h or m/s units. Reads up to 65MPH. Wind speed in Beaufort wind scale bar graph. Wind chill display. Temperature display in degrees Celsius or Fahrenheit. Data-hold function. Auto power OFF. LCD backlight. Comes with neckband and 1 x 3V CR2032 battery. 1.5"x7"x3.9". #DVM9500, New, \$89.95



Transmission Test Set



Northeast Electronics TTS-44 Transmission Test Set. A useful device for test and measurement of audio VLF-RF frequencies up to 99.99 KHz. Has a four digit display switchable from Hz to KHz, and an edgewise DB meter.

Also, has a small front mounted speaker with level control. Send portion of unit generates frequencies in presets (404,1004, 2804 Hz) and variable ranges (35 - 375 Hz, 375 - 4.5 KHz, 4.5 - 60 KHz) and has an output attenuator from -40 to +10 db in six ranges. Both send and receive have two independent channels with bridged and terminated binding post and phone plug connections. 120VAC, and self contained battery operation (no warranty of battery condition) 12.7 x 15 x 7.5, 33 lbs sh. #TTS-44, Used repairable, \$79.50 #MM-TTS-44, Manual Repro for above, \$23.00

Thermometer

In/Out Thermometer, Memory for min/max values. Wall-mounted or freestanding device. Simultaneously display in/out. Alert/set button to enter a preset value for in/out temperature. Readout in C or F. Weatherproof sensor probe for outdoor temperature. Temperature range indoor: -10C to +50C (+14F to +122F); outdoor: -50C to +70C (-58F to +158F) Digit height: 0.5". Display size: 1.18" x 1.57". Unit size: 4.3" x 2.75" x 0.78". Requires one AAA battery (included). #TA20, New, \$10.99



Infrared Thermometer

INFRARED THERMOMETER. One-handed operation. Laser technology. Range 0 to 788F. Resolution 1F / 1C. Spectral response 6-14um. Response time 50ms. Accuracy -20C to +100C $\pm 3C$; $+110$ to $+400C \pm 1.5C$. Operating temperature 0 to +50C. Power consumption 40mA max. Requires 1 x 9V battery (not included) 1.7" x 1.6" x 6.7". 2 lbs sh. Drop shipped from Texas. #DVM8869, New, List Price, \$215.00; Our Price, \$151.95

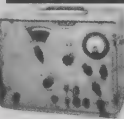


TS-656 Test Meter

TS-656 Electrical Meter Test Set supplies accurately metered AC and DC voltages and DC current to test meter movements. AC, DC voltages 0 to 2.5, 5, 10, 25, 50, 100, 250, 500. DC current: 0 to 100 uA, 250 uA, 500 uA, 1 mA, 2.5 mA, 5 mA, 10 mA 25 mA 50 mA, 100 mA, 250 mA, 500 mA and 1 amp. Requires 120 v 60 hz. 55 lbs sh. 17.75 x 14.25 x 11.75. With operators info. #TS-656, Used Repairable, \$169.50



URM-26B Generator



SG-117/URM-26B SIGNAL GENERATOR, 4 to 405 MHz AM-CW - Pulse in six bands. Output 0.1 to 100K uV into 50 ohms. Modulation 400 or 1K Hz 0-50%. External pulse-mod requires positive 40 V-min 50-500 pps; duration 2-40

usec and 70 ohm input impedance. Requires 115 V 50-1000 Hz. Outer case may have small dents. Less front cover. 11.3x14x10.5, 36 lbs sh. #URM-26B, Used Checked, \$195.00 Manual repro, #MM-URM-26B, \$18.00

Accessories sold only with purchase of URM-26B:

2:1 attenuator, 50 ohms, #CN-315, \$9.50
10:1 50 ohm, #CN-316 \$11.50
Impedance matcher, #CU-439, \$11.50
BNC cords, 4 foot, #BNC-4ft, \$4.50;
BNC cords, 6 inch, #BNC-6IN, \$2.50

SG1174 Signal Generator

SG-1174/U (AUL 6201B)

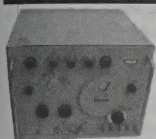
Signal Generator 3.8 - 7.6 GHz. Internal modulation of CW, pulse, square wave, FM or accepts external modulation. Control complement includes vernier tuning, attenuator, sync multiplier, pulse rate (40-400pps), pulse width (.5-10us), sync delay (3-300us), and FM modulation level. Solid-state design except for 5037 klystron. 50 ohm output, plus sync and sync delay outputs; external modulation inputs. 5.7x19x13.7, 54 lbs sh. No manual available. #SG-1174, Used Repairable, \$125.00



CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313

UHF Signal Generators



HEWLETT-PACKARD 620B SIGNAL GENERATOR, 7 to 11 GHz in single band FM, pulse or squarewave modulation. Calibrated output 0.1 uv to 0.224 V into 50 ohms. Also second 0.3 MW uncalibrated output useable for phase locking.

Pulse rate 40 to 4000 pps; width 0.5 to 10 usec. Uses 5721 or = klystron. Requires 115/230 VAC 50-400 Hz. 13.9x17.5 x17.4; 70 lb. #HP-620B, Used, Repairable, \$175 Manual repro for above, #MM-HP-620B, \$20.00

HP-618C GENERATOR, similar to 620B except 3.8 to 7.6 GHz; #HP-618C, Used, Repairable, \$150.00 Manual repro for above, #MM-HP-618C, \$17.00

HP-8640B Signal Generator



HEWLETT-PACKARD 8640B RF GENERATOR 500 KHz - 512 MHz AM-FM-Pulse in 11 bands read on 7-digit display.

Output +19 to -145 dbm (2 V to 0.013 uv); phase-lock FM. Requires 100/120/220/240 VAC 48-440 Hz; 5.5x16.8 x18.8, 53 lbs sh. Used Checked w/manual copy, #HP-8640B-13, \$1150.00

MILITARY VERSION of popular solid-state HEWLETT-PACKARD 8640B with opt 323 (AN/USM-323). Covers 500 KHz to 512 MHz AM-FM-Pulse in ten octave ranges using 6-digit LED readout; to 1024 MHz using external freq divider (not available). Output: 0.01 uv to 2 V (-144 to +19 DBM); modulation 400, 1000, 5000 Hz. Pulse: 0.05-5 KHz.

Resolution 10 Hz (0.5-4 MHz), 100 Hz (4-64 MHz), 1 KHz (64-512 MHz). USM-323 does NOT have these features: seventh 1/2 digit, X100 Expand, ext-count input, phase-lock. Mounted in transit case. Requires 103-127/207-242 VAC 48-440 Hz; 7.8x19.5 x22.4, 70 lbs. #USM-323, Used Checked w/book copy, #895.

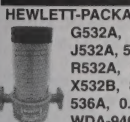
480 MHz Signal Generator



HEWLETT-PACKARD 608E SIGNAL GENERATOR, best of 608-series covers 10-480 MHz AM-CW-pulse; 1 & 5 MHz calibration check points over range make +/-0.05% accuracy possible. Modulation 400 or 1000 Hz internal; external 20 Hz-20 KHz, 0 to 90%. Large 3.5" dia meters for Percent Modulation & Output Volts-DBM. Requires 115/230V 50-400 Hz; 16.4x13.3x21, 72 lbs. #HP-608E-UR, Used, Repairable, \$260.00

#HP-608E-CH, Checked, \$310.00 Manual repro for above, #MM-HP-608E, \$18.00 FIBERGLASS TRANSIT CASE for HP-608 generators; 30 lbs sh. #FIB-USM-44B, used, \$40.00

H-P Microwave



HEWLETT-PACKARD, Frequency Meters, 5 lbs. Used: G532A, 3.85-5.85GHz, \$195.00 J532A, 5.3-8.2 GHz, \$195.00 R532A, 26.5-40GHz, \$195.00 X532B, 8.2-12.4GHz, \$195.00 536A, 0.94 - 4.2GHz, \$50.00 WDA-094 by FEL, 0.96 - 4.2GHz, Unused,\$50

Precision Attenuators:

J382A, 0-50dB, \$195.00; X382A, 0-50dB, \$195.00;

DIRECTIONAL COUPLERS: 2 lbs sh.

G752C, \$125, H752C, \$125,

W752D, \$125, P752A, \$99,

X752C, \$99, P8747A, \$150,

Omega 3315E, \$95.00,

UG1054/H281A, \$95.00

Waveline 60563, \$95.00,

X910B Termination, \$20.00

50 MHz Signal Generator



AN/URM-25 SIGNAL GENERATOR with accessories; covers 10 KHz to 50 MHz in 9 bands. Output to 100K uv into 50 ohms. Modulation 0-50% 400 or 1000 Hz; internal 1 MHz calibrator. Includes MX-

1487 impedance adapter, SM-35 antenna simulator, attenuators CN-223-224, test cable & manual repro. Requires 115 VAC 60 Hz; 11.3x14x10.8, 58 lbs sh. #URM-25-UR, Used, Repairable, \$130.00 #URM-25-CH, Checked, \$200.00

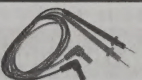
Dummy Antenna for URM-191 & other signal generators such as the URM-25. 50 ohm impedance. Has a female BNC connection on each end. #DA-650, Used, \$7.00

Fixed 5:1 Attenuator for URM-191 & other signal generators such as the URM-25. Has a female BNC connection on each end. #CN-1418, Used, \$8.00

Adapter Connector for URM-191 & other signal generators such as the URM-25. Has a female BNC connection on one end and a 1/4" phone jack on the other end. #35-28102-14, \$7.50



Test Leads



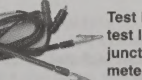
TEST LEADS. 2 test leads with protection caps. Ratings: 1000V / 15A. Length: 30" / 37". #TLM1, New, \$6.95

SET OF TEST LEADS - 2 BANANA PLUGS. 2 test leads (with banana plug) 0.16". Length: 39.4". #TLM2, New, \$1.59



SET OF TEST LEADS - BANANA PLUG / BOOTED CROCODILE PLUG. 3 test leads (banana plug 0.16" / boot-crocodile plug). Length: 35.4". #TLM3, New, \$1.59

SET OF TEST LEADS - 2 HOOKED BANANA PLUGS. 2 test leads (2 hook banana plugs) 0.16". Length: 35.4". #TLM4, New, \$1.99



Test Leads with alligator clips. Each test lead is 55" long. Used in conjunction with PSM-6 and other military meters. #MX-1909, Unused, \$4.

Red & black panel jacks 1/ above. #J-19, used, \$2 per set

Alligator Clips

ALLIGATOR CLIP 10A. Solder conn. Length 2.2". Boot color black, #CM16B, 4 for \$2.00; 8 for \$3.60 Boot color red, #CM16R, 4 for \$2.00; 8 for \$3.60

ALLIGATOR CLIP. Solder conn. Length 1.7". Boot color black, #CM6B, 8 for \$3.20; 24 for \$8.40 Boot color red, #CM6R, 8 for \$3.20; 24 for \$8.40

As above but 1.1". Boot color black, #CM5B, 12 for 8 for \$3.20; 24 for \$8.40 Boot color red, #CM5R, 12 for 8 for \$3.20; 24 for \$8.40

20 amp rated Industrial Alligator clip with spiny contact by Mueller. No insulation. Unused, #AC-1868, \$1.25 each; 3 for \$3.00

Jumper Test Leads



Set with 10 wires 5 colors with boot gator clips. Cable length: 20". Booted alligator clips: 1". #CM12, New, \$2.59

HP Analyzer Plug-In



HEWLETT-PACKARD 8553B SPECTRUM ANALYZER PLUG-IN for HP-141T main-frame; covers 1 KHz to 110 MHz in bands 0-11 and 0-110 MHz. IF bandwidths: 10 Hz to 300 KHz, 1-3

sequence. Scan widths on 10-division CRT: 20 Hz/div to 10 MHz/div in 18 calibrated steps, 1-2-5 sequence. 4x8.9x13.5, 17 lbs.

#HP-8553B-UR, Used, Repairable, \$295.00 Manual partial repro, #MM-HP-8553B, \$20.00

HP-8552B IF Plug-in for 141T. Features video filtering, recorder outputs and an internal calibration signal to make the spectrum analyzer easier to use. Provides bandwidth/gain selection and detection. Internal calibration standard is -30dBm, 30MHz signal. 16.8x16.4x8.8, 14 lbs sh. #HP-8552B, Used operates but may need adjustment, \$400.00



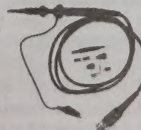
HEWLETT-PACKARD 8445B AUTOMATIC PRESELECTOR. This YIG tuned filter unit is designed for use with the HP-141T Analyzer with the HP-8555A Plug-in. Suppresses harmonic mixing image and multiple responses from 1.8 to 18 GHz. Clean band sweeps of 2, 4, 6, or 8 GHz are possible depending on the band selected. N connections. Less interconnect cable. Requires 100/120/200/240 V 48-440 Hz. 3.5x16.8 x18.4, 25 lbs sh. #HP-8445B, Used, Repairable, \$350.00

Scope Probes

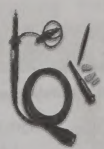


OSCILLOSCOPE PROBE 150MHz. Complete probe set for measurements up to 150MHz. Attenuation: 1:1 or 1:10. Position x1 - bandwidth: DC to 60MHz, input resistance: 1Mohm (input resistance scope) input capacitance: 90pF + cap. scope. Position x10 - bandwidth: DC to 150MHz, input resistance: 10Mohm (if scope input = 1Mohm), input capacitance: 15pF approx. Cable length 3.9ft. #PROBE150, New, \$43.95

OSCILLOSCOPE PROBE 100MHz. Complete probe set for measurements up to 100MHz. Attenuation: 1:1 or 1:10. Position x1 - bandwidth: DC to 60MHz, input resistance: 1Mohm (input resistance scope) input capacitance: 90pF + cap. scope. Position x10 - bandwidth: DC to 100MHz, input resistance: 10Mohm (if scope input = 1Mohm), input capacitance: 16pF approx. Cable length 4.6ft. #PROBE100, New, \$34.95



INSULATED SCOPE PROBE 60MHz. Complete probe set. Insulated for hand-held equipment. Attenuation: 1:1 or 1:10. Position x1 - bandwidth: DC to 15MHz, input resistance: 1Mohm (input resistance scope), input capacitance: 46pF + cap. scope. Position x10 - bandwidth: DC to 60MHz, input resistance: 10Mohm (if scope input = 1Mohm), input capacitance: 18pF approx. Cable length is 4.6ft. With insulated BNC connector. #PROBE60S, New, \$24.95



PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

Tektronix Plug-ins

Each of the plug-ins listed below are used repairable.

Part Number: #TEK-(specify model)

- 1A1 High Gain Wide Band, \$45.00
- 2B67 Time Base, \$45.00
- 3A1 Dual Trace Amplifier, \$45.00
- 3A3 Vertical Dual Trace Differential Unit, \$75.00
- 3A6 Dual Trace Amplifier, \$45.00
- 3A72 Dual Trace Amplifier, \$40.00
- 3B4 Time Base Single Sweep Type, \$45.00
- 3S76 Sampling Dual Trace, \$40.00
- 5A14N Four Channel, \$100.00
- 5A15N Single Trace Amplifier DC-2MHz, \$35.00
- 5A18N Dual Trace Amplifier, \$79.50
- 5A21N Differential Amplifier, \$50.00
- 5A24N Single Trace Amplifier DC-2MHz, \$30.00
- 5A38 Dual Trace, \$45.00
- 5A48 Dual Trace, \$60.00
- 5B10N Time Base / Amplifier, \$50.00
- 5B12N Dual Time Base, \$85.00
- 5B25N Digitizer / Time Base / Amplifier, \$99.00
- 5B40 Time Base, \$60.00
- 5B42 Delaying Time Base, \$85.00
- 5T3 Time Base, \$65.00
- 7A12 Dual Trace Amplifier, \$60.00
- 7A13 Differential Comparator, \$125.00
- 7A15A Amplifier, \$60.00
- 7A16A Amplifier, \$99.00
- 7A18 Dual Trace Amplifier, \$125.00
- 7A19 Amplifier, \$125.00
- 7A22 Differential Amplifier, \$150.00
- 7A24 Dual Trace Amplifier, \$99.00
- 7A26 Dual Trace Amplifier, \$99.00
- 7B10 Time Base, \$199.00
- 7B50 Time Base, \$155.00
- 7B53A Dual Time Base, \$179.00
- 7B71 Delaying Time Base, \$175.00
- 7B80 Time Base, \$125.00
- 7B87 Time Base, \$175.00
- 7B92A Dual Time Base, \$199.00
- 7D15 225MHz Counter / Timer, \$199.00
- 10A2 Dual Trace Amp, \$50.00
- 11B1 Time Base, \$40.00
- 53/54K Fast Rise .05-20V/cm, \$20.00
- 72 Dual Trace Amplifier, \$45.00
- AM-6565/U Amplifier (7A15AN11), \$45.00
- B Wideband 50mv-20V/cm, \$25.00
- CA Dual-Trace DC-24 MHz, \$40.00
- D High Gain DC Differential, \$25.00
- E Low Level AC Differential, \$25.00
- H Wideband 50mv-20V/cm, \$25.00
- K Low Level AC Differential, \$25.00
- L Wideband High Gain, \$30.00
- O Operational Amplifier, \$50.00
- P Rise Time Test Unit, \$25.00
- Q Transducer-Strain Gauge, \$85.00
- Z Differential Comparator, \$85.00

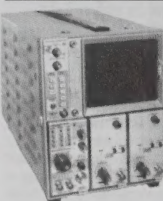
Wire Clips

144mm LONG WIRE CLIP
FOR CABLE CONNECTION.
Suitable for cable and 4mm banana plug. Length is 5.7". Black color, #CM23B, \$2.00
Red color, #CM23R, \$2.00

40mm WIRE CLIP. Solder connection. Length is 1.6".

Black color, #CM22B, \$1.19; 3 for \$2.79
Red color, #CM22R, \$1.19; 3 for \$2.79

TEK 7603N11S

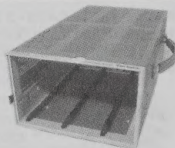


AN/USM-281C (Tektronix 7603-N11S) OSCILLOSCOPE, modern, versatile 7000-Series scope with large 8 x 10 cm display and at least 65 MHz response. Includes two AM-6565 (7A15AN11) single-trace and one TD-1085 (7B53AN11) dual time base plug-ins plus the 100 MHz mainframe accepts standard Tek 7000-Series plug-ins. Vertical deflection 5 mV - 10 V/div in 11 calibrated steps, 1-2-5 sequence; vernier to 25 V/div. Sweeps: Normal, Intensified Delay, Delayed and Mixed. Rate 0.05 uS - 5 S/div in 25 steps, 1-2-5 sequence; 5 NS rate using x10 magnifier. Delayed rate 0.05 uS to 0.5 S/div in 22 steps. Requires 100-120/200-240 VAC 48-440 Hz. With book; 11.5x9.7x25.2, 52 lbs. #USM-281C-UR, Used-Repairable, \$370.00
#USM-281C-CH, Checked, \$460.00
Manual repro f/ USM-281C only, #MM-USM-281C, \$35

ADAPTERS for USM-281C/TEK7603:
ADAPTER BNC (f) - UHF (m) #103-0015, \$3.00
ADAPTER BNC (m) - UHF (f) #103-0032, \$3.00
ADAPTER BNC (m) to post, #103-0033, \$3.00
T-CONNECTOR, BNC (f-m-f) #103-0030, \$3.50
CABLE, 8 ft BNC, 50 ohms, #012-0118, \$4.50

TEK 500 Modules / Plug-ins

The TEK TM503 Power Module benchtop mainframe is a three wide power module compatible with all TM500 Plug-Ins. It provides unregulated DC and AC supplies and non-dedicated power transistors for plug-in usage. 17x8.35x9, 14 lbs sh. #TM503, \$125.00



Four Wide Power Module, #TM-504, \$145.00
Five Wide Portable w/ covers, #TM-515, \$169.00

Part Number for plug-ins below:
#TEK-(specify model)

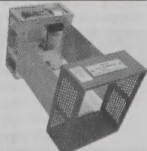
AM502 Differential Amplifier, \$195.00
AM503 Current Probe Amp (no probe included), \$179
DC501 Counter 110 MHz, \$199.00
DC502 (opt. 1) Counter, \$199.00
DC503 Universal Counter, \$129.00
DC504 Counter / Timer, \$129.00
DM501 Digital Multimeter, \$99.00
DM502 Digital Multimeter, \$149.00
FG501 Function Generator, \$129.00
PG501 Pulse Generator, \$129.00
PG505 Pulse Generator, \$225.00
PS501 Power Supply, \$199.00
SG503 Leveled Sine Wave Generator, \$499.00
TG501 Time Mark Generator, \$499.00

**** TEK 5000 Plug-in ****

FG5010 Programmable Function Generator, \$999

Tek Plug-in Adapter

Tektronix type 81 DC-30MHz Vertical Plug-in Adapter. Allows the use of all series and letter-series plug-ins with 580-series oscilloscopes. Tube type version. 12.2x5.9x7.1, 6 lbs sh. #TEK-81, Used, \$29.95



Personal Scope Special



PERSONAL SCOPE 10MS/s, Complete portable oscilloscope the size and cost of a good multimeter. Ideal for hobby, service, automotive and development purposes. Suitable for measurements on audio equipment, line voltage applications, digital signals, all kind of sensors, signal analysis in automotive applications, car stereo, etc its full auto setup function, makes

measuring waveforms very easy. 10MHz sampling rate. 0.1mV sensitivity. Up to 2MHz analog bandwidth. 5mV to 20V/div in 12 steps. 200ns to 1hour/div time base in 32 steps. Full auto set up. Trigger mode: run, normal, once, roll, slope +/-, X and Y position signal shift. DVM readout with x10 option. Audio power calculation (rms and peak). dBm, dBV, DC, rms ... measurements, signal markers for Volt and Time. Frequency readout (through markers). Recorder function (roll mode). Signal storage (2 memories). LCD: 128x64 pixels / high-contrast. Requires five 1.5V AA battery or Nicd / NiMH (not incl.). Includes battery charging circuit. Drop shipped from Texas. #HPS10, New, List Price, \$229.90; Our Price, \$159.99

275 MHz Scope

HEWLETT-PACKARD

1720A PORTABLE SCOPE, DC to 275 MHz response with dual channels, large 6x10 CM display, and selectable input impedance 50 ohms or 1 meg-ohm. Modes Channel A or B, A+B, A & B alternating, A & B chop. Deflection: 5 mv-5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier to 12.5 V. Sweep: 10 ns-0.2 s/div in 23 steps, vernier to 0.5 sec and X10 magnifier. Trigger normal, auto or single. Delay sweep: 10 ns-0.1 s/div in 22 steps, vernier to 0.25 sec; delay time varies 0.02 us-2 sec. Calibrator 1 KHz squarewave, 1 V p-p. Requires 115/230 VAC 50-440 Hz, 38 lbs.

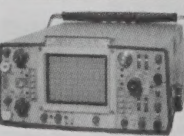


#HP-1720A-UR, Used Repairable, \$425.00
#HP-1720A-CH, Checked, \$550.00

Similar except DC-100MHz, repairable, #HP-1710A, \$360
Similar except DC-100MHz, repairable, #HP-1741A, \$310

Manual repro for HP-1710A, #MM-HP-1710A, \$35
Manual repro for HP-1720A, #MM-HP-1720A, \$35

TEK 100 MHz Scope



TEKTRONIX 465M (AN/USM-425) OSCILLOSCOPE, militarized portable dual-trace unit has response DC to 100 MHz and 8x10 CM display. Deflection 5 mv to 5 V/div in 10 calibrated

steps, 1-2-5 sequence plus vernier. Vertical modes: TRIG View, 20 MHz BW, CH 1, ALT, Add, Chop, CH 2 or X-Y. Sweep 0.05 usec to 0.5 sec/div in 22 steps plus vernier; delay 0.05 usec to 50 msec/div. Inputs: 1 Megohm paralleled by 20 pf. Also X10 magnifier, adjustable handle, and manual copy. Front cover is not available. Requires 100-132 / 200-264 V 48-440 Hz; 19.2x12.8x7, 32 lbs sh. #TEK-465M-UR, Used physically OK but power supply troubles, \$260.00
#TEK-465M-CH, Checked, \$425.00
Manual for above, #MM-USM-425V, \$30.00

EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM

DC Voltmeters

Analog Panel Meter, 0-5 VDC, Scale reads 0-75 watts. 4.6" x 4.1", #251-4, New, \$14.00

FS=5 VDC, scale 0-1.5 A & 0-300 MA; 2.5" rd. #VDC-5, Used, \$6.00

ES=5VDC, 5-0/10-0-10mADC, 3.5" rd, #S00-5-0-5V, Used, \$15.00



DATA TECH 0-20 VDC
Digital Panel Meter,
uses Sperry 7-segment

0.5"H readouts. 10 meg ohm imped.; auto-polarity, OVP. Requires 115 V 60 Hz. Units have "weak" displays and/or "bad" segments. 1.9"Hx4"Wx5.5"D, 3 lbs. sh. #5313-220, "AS-IS", \$12.00

POLARAD Mfg. FS=100 V DC, 0-100-500 scale, 4"W x3.8"H. #M2/TV13, \$10.00

FS=150 VDC, 0-1500-5000 sc. 4"Wx3.8"H. #M4/TV-13, \$10.00



150-300 VDC expanded scale, 4 1/2" rd, black face, Weston 760, 500 ohm/Volt, #VDC-300, Unused, \$12.00

High Voltage DC 3 1/2" round panel meters removed from equipment. Each panel meter listed below comes with the associated large multiplier resistor creating full scale indication as shown below. 0-1KV, #S00-1KV, \$20

Analog DC Volt Panel Meters, New, \$9.00 ea
15V, 2.4"x1.9", #AVM6015
15V, 2.8"x2.4", #AVM7015
30V, 2.4"x1.9", #AVM6030
30V, 2.8"x2.4", #AVM7030

DC Amps



DC AMMETER -15 MV - 0 - +50 MV. 4.5 inch dia. mounts in 3 5/8 inch hole. Scales -150 to 500, -30 to 10, -15 to 50, -3 to 10. 3 lbs sh. #400R150B, Unused, \$6.95

EDGEWISE METER 0-8 A DC; 1.9"W x 3/4"H; #D2588, \$8.00

ES=20 ADC, 2.5" round diameter. 20-0-20 scale. White face. Shunt not required. #ADC-20-ES, Unused, \$10.00



0-150ADC & 0-75VDC
Scale: FS=150MV; 2.7" x 2.3", #1921-M1031, Unused, \$7.50

FULL SCALE = 50 MV:

0-15 ADC 3.5" rd black, #ADC-15, \$8.
0-30 ADC 2.5" rd, used, #ADC-30, \$7.95



0-1500 DC Ammeter. 3.5 inch dia. mounts in 2 3/4 inch hole. White face. FS=50mv. #NX-35, Unused, \$15.00

Analog DC Current Panel Meters, New, \$9.00 ea.

3A, 2.4" x 1.9", #AIM603000
10A, 2.4" x 1.9", #AIM6010A
5A, 2.4" x 1.9", #AIM605000
5A, 2.8" x 2.4", #AIM705000
30A, 2.4" x 1.9", #AIM6030A, \$10.95 ea

DC Micro Amps

FS=50 UA DC, scale -30 +150 w/ "0" center; 2.5" rd sealed. #TRC30150, \$5

Analog Panel Meter, 0-50 UADC, 2.4" x 1.9", #AIM60005, New, \$9.00

ES=100 UADC, 3.5" rd, Scale -10 to +10 %, Black face, #UA-100-ES-3.5, Used, \$7.00



20-0-100 uadc 2.5" Round panel meter by Simpson. Marked Galvanometer. #20-0-100, Unused, \$9.50

FS=100 UA DC, 2.5" round diameter. Scales for 0 to 100 and -8 to +6dbm. Black face. #265-347, Unused, \$10.00

150-0-150 UA DC, 3.5" Rd Simpson. #UA-150-ES, Unused, \$8.95

FS=200 UA DC, 3.5" Rd diameter. Scales for 0 to 20 and 0 to 20 RF Watts. White face. #300R-426C, Unused, \$14

0-200 UADC 2.5" round. White face. Used, #UA-200, \$11.00

DC Milliamps

FS=1maDC, Marked Amperes, Volts, and AC. 0-5/120/30 scale. 3.6"W x 3.3"H, Mounts in 2 1/4" hole. #2168, Unused, \$17.50

0-1 made Full Scale Indicated. Meter face reads 40 to 80 Hz. This is not a frequency meter. 3.5"W x 3"H. Mfg by Crompton. #AA-EXXH, Unused, \$6.95

0-1 made Full Scale Indicated. Meter face reads 0 to 3KVDC. 2.5" round. Mfg by DeJur. #265161, Unused, \$6.95



Analog Panel Meter, 0-1 mADC, 2.4" x 1.9", #AIM601, New, \$9.00

ES=1mADC, 100-0-100 scale, 2.5" RD, A&M Instruments. #265-097, Unused, \$14.00

1.5mADC Movement Audio Output Meter for receiver. 0-2VAC scale non-linear. Works with SP-600. 2 1/4" rd white face. #MA-1.5, Used, \$23.00

100-0-100 MA DC, 3 1/2" rd Weston 301, #MA-100-ES, Used, \$6.95

Analog DC Current Panel Meters, New, \$9.00 ea.

50mA, 2.4"x1.9", #AIM6050
100mA, 2.4"x1.9", #AIM60100
500mA, 2.4"x1.9", #AIM60500

Shunts

FS=50mv:
30 amps, 1.3x2x1.7, #SH-30, Used, \$7

High Current Weston DC Generator Shunts. 50mv. Used, minor corrosion. 400 amp 4 lbs. #SH-400, \$30.00
500 amp 3 lbs. #SH-500, \$30.00
800 amp 4 lbs. #SH-800, \$30.00
1000 amp 9 lbs. #SH-1000, \$40.00

Instrument Shunt, 1 amp at 50MV; 2 amps at 100MV. #0042261, \$4.95

AC Voltmeters

VTVM Meter 1-10 VAC scale expanded with 3.5 V centered; also 0-20 DB. 4.5" rd. #0899, Unused, \$7.95



Analog AC Voltage Panel Meters, New, \$9.00 ea.
150V, 2.4"x1.9", #AVM60150
300V, 2.4"x1.9", #AVM60300

AC Amps

FS = 5 amps AC; transformer required for indicated scale (not available): 0-150 A, 2.5" dia. #ACA-150, \$9.50

0-100-200 AC AMPS FS=5 A GE-YOKO 2.5" sq. #ACA-200, \$10.50

Various Meters

----- DB METER -----

-4-0+6 DB 1 MW, FS=1 MA; 2.5" rd sealed, #DBM-4-6, Used, \$4.50

-- METER ASSORTMENT --

Seven U.S. mfg meters 2 1/2" x 3 1/2" - up; mixed odd scales, FS-100 ua and up-- no choice; 3 lbs sh. #MTR-ASST, \$12.00

- I-70 B TUNING METERS -

"Tune for Max" meter used in many WW-2 radio remote control boxes such as BC-311, BC-434 & C-4/ARN-7; 2.1x2.1 x1.6, 1 lbs. #I-70B-TM, Used, \$12.00

- ART-13 PLATE METERS -

Original PA Plate Panel Meter from the ART-13 transmitter. Full Scale equals 1mADC. 2 1/2" round. Black face. Used condition, #PMTR-ART-13, \$23

- TV-2 PANEL METERS -

TV-2 panel meters
Filament, #F-TV-2, Unused, \$50.00
Grid Bias, #GB-TV-2, Used, \$50.00
Screen, #S-TV-2, Used, \$50.00

KW Hour Meters

KiloWattHour meters 240 volt 60 Hz single phase 4 dial. Monitor power to your out buildings or campground. Removed from use, good condition. An interesting item to build into a lamp base. You could probably modify it to make in run on the lamp current. 8 lbs sh. Used.

Duncan Form 2S, Rr 138 8/9, 240 v TA 30, Kh 7.2 3W. #200CL-MS, \$30.00

Duncan MQ-S Form 2S Rr 83 1/3 240 v 60 Hz 3W TA 30 12 kh. #200CL-MQ-S, \$29

Galvanometer



Used in test bridges to indicate slight variations in current; 1 mm increments:

LEEDS & NORTROP
10-0-10 scale, sens 0.1 ua/mm. CDRX 10K ohms; 500 system res. Period 4 sec; w/ Balance "lock". Behind panel: 4"D x 1" dia; front 3"H. #18876, New, \$30.00

Frequency Meter



5 Reed Frequency Meter 380 - 420 Cycles. 100-130 Volts. 1 3/4" diameter. #15-FH-400, Used, \$12



60 / 400 HZ REED FREQUENCY METER two reeds--one 60 Hz, one 400 Hz-- vibrate when freq approached. Use a 20K ohm resistor for 115V operation. 2" dia; fit 1.5" hole. #FM-TS382, used, \$12.95

RF Thermocouple

RF Thermocouple ARC-7499 as used in RE-2/BC442 ARC-5 antenna relay. Bridge type 19.5 +/- 1.5 mv 750 ma. Use for replacement on experiments. #ARC-7499, Unused, \$6



Pressure Gauges



0 to 15 PSI Pressure Gauge by USG. 2.1" round with 1/8" fitting and brass coupling. #PS-15, Used, \$8.95



0-60 PSIG & 0-4 KG/CM; 2.1" rd w/ 1/2" dia fitting. #PG-60PSI, NEW, \$6.50

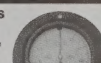


PRESSURE REGULATOR 0 - 500 PSI. Seems to be a quality unit, but no mfg. or country of origin on the unit. 2.5x1.8 x3.3, 2 lb sh. #PR-500, \$6.00

0-6000 PSI 4" dia 270 degree scale; 7/16" dia fitting. O/a 6" dia. #M6000-PSI, Unused, \$16.00

Water Gauge

3 1/2" Round Gauge reads negative 80 thru positive 80 "Centimeters of Water" in increments of 2. Has 1/8" threaded hole on back. Made by Marshall Town. #92361, Unused, \$8.50



Temperature Gauge

40 - 240 degree Temperature Gauge. 2 1/4" diameter. White face. Requires external sensor. #TEMP-240, \$6.50



Running Time Ind.

3 1/2" Round Running Time Meter by Cramer Division Type 635EAA. Requires 115VAC 60Hz at 2.7 watts. Reads upto 999,999 hours.

Reads in one hour increments only. Does not read in tenths. 3/10 RPH. 3" depth. Comes with mounting hardware. #RTM-115, Unused, \$23.00

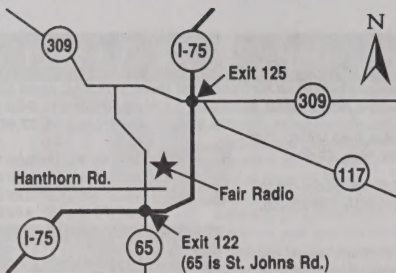
Same as above except 440VAC 60Hz and reads upto 99,999 hours, #RTM-440, Unused, \$18.00

12VDC Counter

6-Digit Mechanical Counter 12 VDC nonresettable; black numerals on white. Rear mount flange; o/a 1.3"Hx1.5" Wx2.5"D, 1 lb. #E07B10DC12, New \$3.95



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Fair Radio Sales Co., Inc.
2295 St Johns Rd
Lima, Ohio 45804

R-390A & 51J4 Rack



Standard 19" Rack Cabinet for R-390A, R-388, SP-600, etc... 16-gauge steel, Rails are fixed both front and rear, round hole punched for 10-32 clip-nuts to full EIA

hole centers (5/8 - 5/8 - 1/2 inch spacing). Includes rubber feet, 2 lifting handles, a starter pack of 10-32 clip nuts & matching black screws. 10.5" Rack Height. Overall height 2" over panel height. 17" deep. Overall width is 21". Recommended maximum weight 600 pounds. Rugged powder paint finish. Hammond Mfg. 38 lbs sh. Drop shipped from NY. New, #RCBS1901017BK1, \$156.95 each

Standard 19" Rack Cabinet for 51J4, R-388 etc.... It's the same rack cabinet as above except it is 13" deep. #RCBS1901013BK1, \$119.50 each

R-390A Adapter

Hard to find R-390A balanced input adapter. Goes from Twin-ax male to a UHF female. #UG-970, Unused, \$40.00



1000pf Vacuum Cap



Ceramic Vacuum Capacitor 1000pf at 15KV. Overall 8.8" Long x 4.5" Diameter. 3/4" long 3/8" diameter shaft. 12 lbs sh. #CVDD-1000-15, Used Checked, \$399.00

600 ohm Attenuator

600 ohm Attenuator by Mini-Circuits. DC to 500MHz.

Male BNC on one end to a female BNC on the other. #CAT-600, \$5.00



R-392 Power Connector



Hard to find power connector for R-392 HF Receiver. #CONN-R-392, Unused, \$40.00

Trompeter Panel



Trompeter JS64S/J8 Non-Insulated Rackmount Panel with J8 TPS Patch Jacks. 7 lbs sh. 2.4x19x1.8, #JS64S/J8, Used, \$49.50

50 ohm Termination



Strip Line 50 ohm 20 watt Termination. Pull out of TN-612 Prepost selector, #TERM-612, \$10

ECG Antenna Rotor

ECG Antenna Rotor, A durable, precision-built rotor designed to turn and accurately position even the largest TV/FM antenna, ensuring the best possible TV picture and FM reception. High torque - easily handles largest TV/FM antenna arrays. Built to take high winds and harshest weather extremes - water tight seal. Rotation Time 70 Seconds. Rotation Torque 8 Ft.-Lbs. Vertical Load Capacity 100 Lbs. (max.). Support Mast Size 1.125" - 2" Dia. Comes with Rotator Drive Unit and Control Unit, 14 lbs sh. #U-105, New, \$79.95



Support Bearing for U-105 Antenna Rotor. Provides extra support for U-105 rotator drive unit bearings. Relieves wear and tear on rotator imposed by wind loads. With mounting hardware. #TB-105, New, \$18.46

Freq, Cap, Temp, Meter



3 1/2 DMM - 30 RANGES / 20A / TEMPERATURE IN CELSIUS / CAPACITANCE / FREQUENCY, DC voltage: 200m/2/20/200/1000V $\pm 0.5\%$ + 1 digit, $\pm 0.8\%$ + 2 digits (1000V). AC voltage: 2/20/200/750V $\pm 0.8\%$ + 3 digits, $\pm 1.2\%$ + 3 digits (750V). DC current: 20m/200m/10A $\pm 1.5\%$, $\pm 2.0\%$ (10A). AC current: 2m/200m/10A $\pm 1\%$, $\pm 1.8\%$ (200mA), $\pm 3\%$ (10A). Resistance: 200/2k/20k/200k/2M/200M, $\pm 0.8\%$ ($\pm 5.0\%$ for 200M range). Capacitance: 20n/200n/2 μ /20 μ F $\pm 4\%$. Frequency: 200kHz $\pm 1.5\%$ (overload protection: 380VDC of 380VAC rms). Temperature: -20°C to 1000°C $\pm 5\%$, $\pm 1\%$ (1°C-400°C), $\pm 2\%$ (401°C-1000°C). Requires 9V battery. With auto power-off. Transistor, diode and audible continuity test. Data hold function. Accessories included: manual / test leads / holster / battery / temp. probe. Low-battery indication, & overload protection. With holster. 7.5" x 3.3" x 2.2", 2 lbs sh. New, #DVM8264, \$49.95

Delay Relay

90 Second Solid State Time Delay Relay by SSAC, 24VAC 0.5A, #TAC42190, Unused, \$13.95



10MHz Crystal Oscillator



10 MHz Crystal Oscillator and Oven by Hewlett Packard. Power required +12VDC and 24VDC for oven. Tested for output, may need adjustment. Removed from equipment. With info. 3x3x2 on 5x2.6 board. Minor rust spots. 3 lbs sh. #10811-60111, \$89.00

As above except #HP-10544A, \$69.00

RF Cable fits board and has BNC female connector. #CRY-OVN-CBL, \$6.00

Frequency Counter



2.4GHz HIGH RESOLUTION FREQUENCY COUNTER, 8-digits green LED display with annunciators. Two-channel operating mode memory. Adjustable range and gate time. High-safety design as per IEC 1010, cat. II. Frequency range: 0.01Hz - 2.4GHz. Accuracy: time base error x frequency ± 1 digit, gate time: 100 msec - 10 sec. Input characteristics: o channel A: + frequency range: # DC couple: 0.01Hz to 100Hz, # AC couple: 100Hz to 50MHz, + sensitivity: 80mVrms, + impedance: 1 Mohms, + max. input voltage: 30V; o channel B: + frequency range: from 50MHz to 2.4GHz, + sensitivity: 50mVrms, + impedance: 50 ohms, + max. input voltage: 3V. Requires 110-220VAC $\pm 10\%$. Drop shipped from Texas. New, #DVM13MFC2U, Retail, \$172.00: Our Price, \$119.95

Pinhole Camera

COLOR PINHOLE CAMERA, Pick-up element: 1/3" colour CMOS image sensor. 512(H) x 586(V) - PAL- pixels. Scanning system: 2:1 interlace. Internal synchronization. Resolution: 350 TV lines. S/N ratio: > 46dB. Min. illumination: 5 lux at F1.4. Electronic shutter: 1/50 - 1/100000. Sync. frequency: 15625kHz(H) / 50Hz - PAL-. Automatic back-light compensation. Automatic white balance. Automatic exposure/gain with 16-zone control. Video output: 1Vpp / 75ohm composite video. 5.0mm lens. 45° viewing angle. Audio output: 20-16000Hz, S/N ratio: > 58dB. Power supply: DC 5-12V / 80mA (regulated) (use PS1205R not incl.). 2 lbs sh. 1.6" x 1.6", Drop shipped from Texas. New, #CAMCOLMHA4N, Retail, \$119.40: Our Price, \$84.95



Fixed Attenuator



Fixed Mini-Type Attenuator, 6 dB, Type "F" connector Female to Male, Impedance: 75 ohm, #33-795, Unused, \$3.00